

## Weld County, Colorado, Southern Part

### 24—Fort Collins loam, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2t1nc

*Elevation:* 4,020 to 6,730 feet

*Mean annual precipitation:* 14 to 16 inches

*Mean annual air temperature:* 46 to 48 degrees F

*Frost-free period:* 143 to 154 days

*Farmland classification:* Prime farmland if irrigated

#### Map Unit Composition

*Fort collins and similar soils:* 85 percent

*Minor components:* 15 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Fort Collins

##### Setting

*Landform:* Interfluves

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Pleistocene or older alluvium derived from igneous, metamorphic and sedimentary rock and/or eolian deposits

##### Typical profile

*Ap - 0 to 4 inches:* loam

*Bt1 - 4 to 9 inches:* clay loam

*Bt2 - 9 to 16 inches:* clay loam

*Bk1 - 16 to 29 inches:* loam

*Bk2 - 29 to 80 inches:* loam

##### Properties and qualities

*Slope:* 0 to 3 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:* 12 percent

*Salinity, maximum in profile:* Nonsaline (0.1 to 1.0 mmhos/cm)

*Sodium adsorption ratio, maximum in profile:* 0.5

*Available water storage in profile:* High (about 9.1 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 2e

*Land capability classification (nonirrigated):* 4c  
*Hydrologic Soil Group:* C  
*Ecological site:* Loamy Plains (R067BY002CO)  
*Hydric soil rating:* No

### **Minor Components**

#### **Nunn**

*Percent of map unit:* 10 percent  
*Landform:* Terraces  
*Landform position (three-dimensional):* Tread  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* Loamy Plains (R067BY002CO)  
*Hydric soil rating:* No

#### **Vona**

*Percent of map unit:* 5 percent  
*Landform:* Interfluves  
*Landform position (two-dimensional):* Backslope, footslope  
*Landform position (three-dimensional):* Side slope, base slope  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* Sandy Plains (R067BY024CO)  
*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Weld County, Colorado, Southern Part  
Survey Area Data: Version 16, Oct 10, 2017