

## Weld County, Colorado, Southern Part

### 70—Valent sand, 3 to 9 percent slopes

#### Map Unit Setting

*Elevation:* 4,650 to 5,100 feet

*Mean annual precipitation:* 13 to 19 inches

*Mean annual air temperature:* 48 to 52 degrees F

*Frost-free period:* 130 to 180 days

#### Map Unit Composition

*Valent and similar soils:* 95 percent

*Minor components:* 5 percent

#### Description of Valent

##### Setting

*Landform:* Plains

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Eolian deposits

##### Properties and qualities

*Slope:* 3 to 9 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Excessively drained

*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (5.95 to 19.98 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Available water capacity:* Very low (about 2.6 inches)

##### Interpretive groups

*Farmland classification:* Not prime farmland

*Land capability classification (irrigated):* 4e

*Land capability (nonirrigated):* 6e

*Hydrologic Soil Group:* A

*Ecological site:* Deep Sand (R067BY015CO)

##### Typical profile

*0 to 8 inches:* Fine sand

*8 to 60 inches:* Sand

### **Minor Components**

#### **Osgood**

*Percent of map unit: 5 percent*

### **Data Source Information**

Soil Survey Area: Weld County, Colorado, Southern Part  
Survey Area Data: Version 12, Jan 3, 2014

## Weld County, Colorado, Southern Part

### 72—Vona loamy sand, 0 to 3 percent slopes

#### Map Unit Setting

*Elevation:* 4,600 to 5,200 feet

*Mean annual precipitation:* 13 to 15 inches

*Mean annual air temperature:* 48 to 55 degrees F

*Frost-free period:* 130 to 160 days

#### Map Unit Composition

*Vona and similar soils:* 85 percent

*Minor components:* 15 percent

#### Description of Vona

##### Setting

*Landform:* Plains, terraces

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Alluvium and/or eolian deposits

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Well drained

*Capacity of the most limiting layer to transmit water (Ksat):* High (1.98 to 6.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 15 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 4.0 mmhos/cm)

*Available water capacity:* Moderate (about 6.5 inches)

##### Interpretive groups

*Farmland classification:* Farmland of local importance

*Land capability classification (irrigated):* 3e

*Land capability (nonirrigated):* 4e

*Hydrologic Soil Group:* B

*Ecological site:* Sandy Plains (R067BY024CO)

##### Typical profile

*0 to 6 inches:* Loamy sand

*6 to 28 inches:* Fine sandy loam

*28 to 60 inches:* Sandy loam

#### Minor Components

##### Remmit

*Percent of map unit:* 10 percent

**Valent**

*Percent of map unit: 5 percent*

**Data Source Information**

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 12, Jan 3, 2014