

## 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

*Heartland State 636-75-14N*  
*#01-74-14N*  
*#01-73-14N*  
*C31-79-14N*

*Heartland 625-73-14N*  
*625-72-14N*  
*C30-79-4N*  
*C30-79-14N*  
*C31-78-14N*  
*4N 65W SEC 25*  
*SE/SE*

**Minor Components**

**Osgood**

*Percent of map unit: 5 percent*

**Data Source Information**

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 11, Aug 27, 2009

## 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

*Heartland state* G36-75-1 HNI

H01-74-1 HNI

H01-73-1 HNI

C31-79-1 HNI

*Heartland* G25-73-1 HNI

G25-72-1 HNI

C30-79 HNI

C30-79-1 HNI

C31-78-1 HNI

AN bSW sec 25

SE/SE

**Valent**

*Percent of map unit: 5 percent*

**Data Source Information**

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 11, Aug 27, 2009