

Wells Ranch AA22-631 Pad  
Township 6 North, Range 63 West  
Section 22: SWSW  
Weld County, CO

## Weld County, Colorado, Southern Part

### 74—Vona loamy sand, 5 to 9 percent slopes

#### Map Unit Setting

*National map unit symbol:* 363t  
*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  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

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

#### Description of Vona

##### Setting

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

##### Typical profile

*H1 - 0 to 6 inches:* loamy sand  
*H2 - 6 to 28 inches:* fine sandy loam  
*H3 - 28 to 60 inches:* sandy loam

##### Properties and qualities

*Slope:* 5 to 9 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):* 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 in profile:* 15 percent  
*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 4.0 mmhos/cm)  
*Available water storage in profile:* Moderate (about 6.5 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 6e  
*Land capability classification (nonirrigated):* 6e  
*Hydrologic Soil Group:* A  
*Ecological site:* Sandy plains (R067BY024CO)

### **Minor Components**

#### **Valent**

*Percent of map unit:* 10 percent

#### **Remmit**

*Percent of map unit:* 5 percent

## **Data Source Information**

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 13, Sep 23, 2014

Wells Ranch AA22-631 Pad  
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Weld County, Colorado

## •Weld County, Colorado, Southern Part

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

#### •Map Unit Setting

- National map unit symbol: 363r
- 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
- Farmland classification: Farmland of local importance

#### •Map Unit Composition

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

#### •Description of Vona

##### •Setting

- Landform: Terraces, plains
- Down-slope shape: Linear
- Across-slope shape: Linear
- Parent material: Alluvium and/or eolian deposits

##### •Typical profile

- H1 - 0 to 6 inches: loamy sand
- H2 - 6 to 28 inches: fine sandy loam
- H3 - 28 to 60 inches: sandy loam

##### •Properties and qualities

- Slope: 0 to 3 percent
- Depth to restrictive feature: More than 80 inches
- Natural drainage class: Well drained
- Runoff class: Very low
- 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 in profile: 15 percent
- Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to  
•4.0 mmhos/cm)
- Available water storage in profile: Moderate (about 6.5 inches)

##### •Interpretive groups

- Land capability classification (irrigated): 3e
- Land capability classification (nonirrigated): 4e
- Hydrologic Soil Group: A
- Ecological site: Sandy plains (R067BY024CO)

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•**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 13, Sep 23, 2014