

WELLS RANCH BB01-633 PAD  
S5 T5N R62W 6TH P.M. *SW/SW*  
WELD COUNTY, COLORADO

## •Weld County, Colorado, Southern Part

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

#### •Map Unit Setting

- National map unit symbol:* 2tczf
- Elevation:* 3,050 to 5,150 feet
- Mean annual precipitation:* 12 to 18 inches
- Mean annual air temperature:* 48 to 55 degrees F
- Frost-free period:* 130 to 180 days
- Farmland classification:* Not prime farmland

#### •Map Unit Composition

- Valent and similar soils:* 80 percent
- Minor components:* 20 percent
- Estimates are based on observations, descriptions, and transects of the mapunit.*

#### •Description of Valent

##### •Setting

- Landform:* Hills, dunes
- Landform position (two-dimensional):* Backslope, shoulder,
  - footslope, summit*
- Landform position (three-dimensional):* Side slope, head slope, nose
  - slope, crest*
- Down-slope shape:* Linear, convex
- Across-slope shape:* Linear, convex
- Parent material:* Noncalcareous eolian sands

##### •Typical profile

- A - 0 to 5 inches:* sand
- AC - 5 to 12 inches:* sand
- C1 - 12 to 30 inches:* sand
- C2 - 30 to 80 inches:* sand

##### •Properties and qualities

- Slope:* 3 to 9 percent
- Depth to restrictive feature:* More than 80 inches
- Natural drainage class:* Excessively drained
- Runoff class:* Very low
- Capacity of the most limiting layer to transmit water (Ksat):* High to
  - very high (6.00 to 39.96 in/hr)*
- Depth to water table:* More than 80 inches
- Frequency of flooding:* None
- Frequency of ponding:* None
- Calcium carbonate, maximum in profile:* 1 percent
- Salinity, maximum in profile:* Nonsaline (0.0 to 1.9 mmhos/cm)
- Available water storage in profile:* Very low (about 2.4 inches)

##### •Interpretive groups

- Land capability classification (irrigated):* 4e

WELLS RANCH BB01-633 PAD  
S5 T5N R62W 6TH P.M. *SWSW*  
WELD COUNTY, COLORADO

- Land capability classification (nonirrigated):* 6e
- Hydrologic Soil Group:* A
- Ecological site:* Sands (north) (pe 16-20) (R072XA021KS)

#### •Minor Components

##### •Dailey

- Percent of map unit:* 10 percent
- Landform:* Interdunes
- Landform position (two-dimensional):* Footslope, toeslope
- Landform position (three-dimensional):* Base slope
- Down-slope shape:* Linear
- Across-slope shape:* Concave
- Ecological site:* Sandy (north) draft (april 2010) (pe 16-20)  
•(R072XA022KS)

##### •Haxtun

- Percent of map unit:* 5 percent
- Landform:* Interdunes
- Landform position (two-dimensional):* Footslope, toeslope
- Landform position (three-dimensional):* Base slope
- Down-slope shape:* Linear
- Across-slope shape:* Concave
- Ecological site:* Sandy (pe16-20) (south) (formerly sandy, ks - sandy  
•plains, co) (R072XY022KS)

##### •Vona

- Percent of map unit:* 5 percent
- Landform:* Hills
- Landform position (two-dimensional):* Footslope, backslope,  
•shoulder
- Landform position (three-dimensional):* Side slope, head slope, nose  
•slope, base slope
- Down-slope shape:* Linear
- Across-slope shape:* Linear
- Ecological site:* Sandy plains (R067BY024CO)

#### •Data Source Information

- Soil Survey Area: Weld County, Colorado, Southern Part
- Survey Area Data: Version 13, Sep 23, 2014

•**Weld County, Colorado, Southern Part**

WELLS RANCH BB01-633 PAD  
S5 T5N R62W 6TH P.M. *Sus/SA*  
WELD COUNTY, COLORADO

•**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)

WELLS RANCH BB01-633 PAD  
S5 T5N R62W 6TH P.M. *Suysa*  
WELD COUNTY, COLORADO

•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