

BB03-13 PAD  
SW/4SW/4 SECTION 3 T5N R63W, 6TH P.M.  
WELD COUNTY, COLORADO

## Weld County, Colorado, Southern Part

### 69—Valent sand, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2tczd

*Elevation:* 3,850 to 5,210 feet

*Mean annual precipitation:* 12 to 15 inches

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

*Frost-free period:* 130 to 180 days

*Farmland classification:* Farmland of local importance

#### Map Unit Composition

*Valent and similar soils:* 85 percent

*Minor components:* 15 percent

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

#### Description of Valent

##### Setting

*Landform:* Interdunes

*Landform position (two-dimensional):* Footslope, toeslope

*Landform position (three-dimensional):* Base slope

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*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:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Excessively drained

*Runoff class:* Negligible

*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (6.00 to 20.00 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):* 4s

*Land capability classification (nonirrigated):* 7s

*Hydrologic Soil Group:* A

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*Ecological site:* Deep Sand (R067BY015CO)

### Minor Components

#### Dailey

*Percent of map unit:* 5 percent

*Landform:* Interdunes

*Landform position (two-dimensional):* Toeslope

*Landform position (three-dimensional):* Base slope

*Down-slope shape:* Linear

*Across-slope shape:* Concave

*Ecological site:* Deep Sand (R067BY015CO)

#### Julesburg

*Percent of map unit:* 5 percent

*Landform:* Interdunes

*Landform position (two-dimensional):* Toeslope

*Landform position (three-dimensional):* Base slope

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Ecological site:* Sandy Plains (R067BY024CO)

#### Vona

*Percent of map unit:* 5 percent

*Landform:* Interdunes

*Landform position (two-dimensional):* Toeslope

*Landform position (three-dimensional):* 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

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## 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

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*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