

BB11-12 PAD  
NW/4SW/4 SECTION 11-T5N-R63W, 6TH PM  
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:* Dunes, hills  
*Landform position (two-dimensional):* Shoulder, backslope, summit, footslope  
*Landform position (three-dimensional):* Crest, side slope, head slope, nose slope  
*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:* Deep Sand (R067BY015CO), Sands (North) (PE 16-20) (R072XA021KS)

### Minor Components

#### Dailey

*Percent of map unit:* 10 percent  
*Landform:* Interdunes  
*Landform position (two-dimensional):* Foothlope, toeslope  
*Landform position (three-dimensional):* Base slope  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Ecological site:* Deep Sand (R067BY015CO), Sands (North) (PE 16-20) (R072XA021KS)

#### Vona

*Percent of map unit:* 5 percent  
*Landform:* Hills  
*Landform position (two-dimensional):* Foothlope, 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), Sandy (North) Draft (April 2010) (PE 16-20) (R072XA022KS)

#### Haxtun

*Percent of map unit:* 5 percent  
*Landform:* Interdunes  
*Landform position (two-dimensional):* Foothlope, toeslope  
*Landform position (three-dimensional):* Base slope  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Ecological site:* Sandy Plains (R067BY024CO), Sandy (North) Draft (April 2010) (PE 16-20) (R072XA022KS)

## Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part  
Survey Area Data: Version 14, Sep 22, 2015