

D29-20 PAD  
Sec. 29, T3N, R64W  
Weld County, Colorado

## Weld County, Colorado, Southern Part

### 19—Colombo clay loam, 0 to 1 percent slopes

#### Map Unit Setting

*National map unit symbol:* 361v  
*Elevation:* 4,600 to 4,780 feet  
*Mean annual precipitation:* 12 to 16 inches  
*Mean annual air temperature:* 48 to 52 degrees F  
*Frost-free period:* 130 to 160 days  
*Farmland classification:* Prime farmland if irrigated

#### Map Unit Composition

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

#### Description of Colombo

##### Setting

*Landform:* Flood plains, terraces  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Stratified, calcareous alluvium

##### Typical profile

*H1 - 0 to 14 inches:* clay loam  
*H2 - 14 to 21 inches:* stratified loam to clay loam  
*H3 - 21 to 60 inches:* stratified sand to loam to clay loam

##### Properties and qualities

*Slope:* 0 to 1 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):*  
Moderately high (0.20 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 10 percent  
*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Available water storage in profile:* High (about 9.4 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 1  
*Land capability classification (nonirrigated):* 3e  
*Hydrologic Soil Group:* C  
*Ecological site:* Clayey Plains (R067BY042CO)  
*Hydric soil rating:* No

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### Minor Components

#### Nunn

*Percent of map unit:* 5 percent  
*Hydric soil rating:* No

#### Heldt

*Percent of map unit:* 5 percent  
*Hydric soil rating:* No

#### Dacono

*Percent of map unit:* 5 percent  
*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 16, Oct 10, 2017

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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:* Deep Sand (R067BY015CO), Rolling Sands (R072XY109KS)  
*Hydric soil rating:* No

### 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:* Deep Sand (R067BY015CO), Sands (North) (PE 16-20) (R072XA021KS)  
*Hydric soil rating:* No

#### 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), Sandy (North) Draft (April 2010) (PE 16-20) (R072XA022KS)  
*Hydric soil rating:* No

#### 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 Plains (R067BY024CO), Sandy Plains (R072XY111KS)  
*Hydric soil rating:* No

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