

## Weld County, Colorado, Southern Part

### 49—Osgood sand, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 362x

*Elevation:* 4,680 to 4,900 feet

*Mean annual precipitation:* 13 to 15 inches

*Mean annual air temperature:* 46 to 55 degrees F

*Frost-free period:* 140 to 150 days

*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

*Osgood and similar soils:* 85 percent

*Minor components:* 15 percent

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

#### Description of Osgood

##### Setting

*Landform:* Plains

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Eolian sands

##### Typical profile

*H1 - 0 to 22 inches:* sand

*H2 - 22 to 34 inches:* sandy loam

*H3 - 34 to 60 inches:* sand

##### 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 (2.00 to 6.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Available water storage in profile:* Low (about 4.8 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 4e

*Land capability classification (nonirrigated):* 6e

*Hydrologic Soil Group:* A

*Ecological site:* Deep Sand (R067BY015CO)

*Hydric soil rating:* No

#### Minor Components

##### Valent

*Percent of map unit:* 10 percent

*Hydric soil rating:* No

**Dailey**

*Percent of map unit: 5 percent*

*Hydric soil rating: No*

**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)*

## Custom Soil Resource Report

### Interpretive groups

*Land capability classification (irrigated):* 4e

*Land capability classification (nonirrigated):* 6e

*Hydrologic Soil Group:* A

*Ecological site:* Deep Sand (R067BY015CO), Sands (North) (PE 16-20)  
(R072XA021KS)

*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 (North) Draft (April 2010) (PE  
16-20) (R072XA022KS)

*Hydric soil rating:* No