# Weld County, Colorado, Southern Part

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

### Map Unit Setting

*National map unit symbol:* 363p
*Elevation:* 4,650 to 5,100 feet
*Mean annual precipitation:* 13 to 19 inches
*Mean annual air temperature:* 48 to 52 degrees F
*Frost-free period:* 130 to 180 days
*Farmland classification:* Not prime farmland

### Map Unit Composition

*Valent and similar soils:* 95 percent
*Minor components:* 5 percent
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### Description of Valent

#### Setting

*Landform:* Plains
*Down-slope shape:* Linear
*Across-slope shape:* Linear
*Parent material:* Eolian deposits

#### Typical profile

*H1 - 0 to 8 inches:* fine sand
*H2 - 8 to 60 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:* Low
*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (5.95 to 19.98 in/hr)
*Depth to water table:* More than 80 inches
*Frequency of flooding:* None
*Frequency of ponding:* None
*Available water storage in profile:* Very low (about 2.6 inches)

#### Interpretive groups

*Land capability classification (irrigated):* 4e
*Land capability classification (nonirrigated):* 6e
*Hydrologic Soil Group:* A
*Ecological site:* Deep sand (R067BY015CO)

**Minor Components**

**Osgood**

*Percent of map unit:* 5 percent

# Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part
Survey Area Data: Version 12, Jan 3, 2014

# Weld County, Colorado, Southern Part

## 63—Terry fine sandy loam, 3 to 9 percent slopes

### Map Unit Setting

*National map unit symbol:* 363f
*Elevation:* 4,500 to 5,000 feet
*Mean annual precipitation:* 13 to 15 inches
*Mean annual air temperature:* 46 to 48 degrees F
*Frost-free period:* 120 to 180 days
*Farmland classification:* Not prime farmland

### Map Unit Composition

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

### Description of Terry

#### Setting

*Landform:* Plains
*Down-slope shape:* Linear
*Across-slope shape:* Linear
*Parent material:* Residuum weathered from sandstone

#### Typical profile

*H1 - 0 to 6 inches:* fine sandy loam
*H2 - 6 to 18 inches:* fine sandy loam
*H3 - 18 to 37 inches:* fine sandy loam
*H4 - 37 to 41 inches:* weathered bedrock

#### Properties and qualities

*Slope:* 3 to 9 percent
*Depth to restrictive feature:* 20 to 40 inches to paralithic bedrock
*Natural drainage class:* Well drained
*Runoff class:* Medium
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to high (0.06 to 2.00 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 (0.0 to 2.0 mmhos/cm)
*Available water storage in profile:* Low (about 4.4 inches)

#### Interpretive groups

*Land capability classification (irrigated):* 4s
*Land capability classification (nonirrigated):* 6e
*Hydrologic Soil Group:* C
*Ecological site:* Sandy plains (R067BY024CO)

**Minor Components**

**Tassel**
*Percent of map unit:* 5 percent

**Olney**
*Percent of map unit:* 5 percent

**Otero**
*Percent of map unit:* 5 percent

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