

Weld County, Colorado, Southern Part

49—Osgood sand, 0 to 3 percent slopes

Map Unit Setting

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

Map Unit Composition

Osgood and similar soils: 85 percent

Minor components: 15 percent

Description of Osgood

Setting

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Eolian sands

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

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

Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)

Available water capacity: Low (about 4.8 inches)

Interpretive groups

Farmland classification: Farmland of statewide importance

Land capability classification (irrigated): 4e

Land capability (nonirrigated): 6e

Hydrologic Soil Group: C

Ecological site: Deep Sand (R067BY015CO)

Typical profile

0 to 22 inches: Sand

22 to 34 inches: Sandy loam

34 to 60 inches: Sand

Minor Components

Valent

Percent of map unit: 10 percent

Dailey

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

70—Valent sand, 3 to 9 percent slopes

Map Unit Setting

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

Map Unit Composition

Valent and similar soils: 95 percent

Minor components: 5 percent

Description of Valent

Setting

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Eolian deposits

Properties and qualities

Slope: 3 to 9 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

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 capacity: Very low (about 2.6 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability classification (irrigated): 4e

Land capability (nonirrigated): 6e

Hydrologic Soil Group: A

Ecological site: Deep Sand (R067BY015CO)

Typical profile

0 to 8 inches: Fine sand

8 to 60 inches: Sand

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