

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 11, Aug 27, 2009

Weld County, Colorado, Southern Part

72—Vona loamy sand, 0 to 3 percent slopes

Map Unit Setting

Elevation: 4,600 to 5,200 feet
Mean annual precipitation: 13 to 15 inches
Mean annual air temperature: 48 to 55 degrees F
Frost-free period: 130 to 160 days

Map Unit Composition

Vona and similar soils: 85 percent
Minor components: 15 percent

Description of Vona

Setting

Landform: Plains, terraces
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium and/or eolian deposits

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 (1.98 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline to very slightly saline (0.0 to 4.0 mmhos/cm)
Available water capacity: Moderate (about 6.5 inches)

Interpretive groups

Farmland classification: Farmland of local importance
Land capability classification (irrigated): 3e
Land capability (nonirrigated): 4e
Hydrologic Soil Group: B
Ecological site: Sandy Plains (R067BY024CO)

Typical profile

0 to 6 inches: Loamy sand
6 to 28 inches: Fine sandy loam
28 to 60 inches: Sandy loam

Minor Components

Remmit

Percent of map unit: 10 percent

Valent

Percent of map unit: 5 percent

Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 11, Aug 27, 2009