

Map Unit Description

Weld County, Colorado, Southern Part

70 **Valent sand, 3 to 9 percent slopes**

Setting

Elevation: 4650 to 5100 feet
Mean annual precipitation: 13 to 19 inches
Mean annual air temperature: 48 to 52 degrees F
Frost-free period: 130 to 180 days

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
Drainage class: Excessively drained
Capacity of the most limiting layer to transmit water (Ksat): High or very high (5.95 to 19.98 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 0 percent
Gypsum maximum: 0 percent
Available water capacity: Very low (about 2.6 inches)

Interpretive Groups

Land capability classification (irrigated): 4e
Land capability (non irrigated): 6e
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

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Map Unit Description

Weld County, Colorado, Southern Part

35 Loup-Boel loamy sands, 0 to 3 percent slopes

Setting

Elevation: 4550 to 4750 feet
Mean annual precipitation: 11 to 15 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 130 to 180 days

Composition

Loup and similar soils: 55 percent
Boel and similar soils: 35 percent
Minor components: 10 percent

Description of Loup

Setting

Landform: Swales, drainageways, streams
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy alluvium

Properties and Qualities

Slope: 0 to 3 percent
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: About 0 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 5 percent
Gypsum maximum: 0 percent
Available water capacity: Low (about 5.2 inches)

Interpretive Groups

Land capability classification (irrigated): 4w
Land capability (non irrigated): 6w
Ecological site: Sandy Meadow (R067BY029CO)

Typical Profile

0 to 16 inches: loamy sand
16 to 40 inches: loamy sand
40 to 60 inches: sandy loam

Description of Boel

Setting

Landform: Drainageways, streams, swales
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Stratified sandy alluvium

Properties and Qualities

Slope: 0 to 3 percent
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): High or very high (5.95 to 19.98 in/hr)
Depth to water table: About 18 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 5 percent
Gypsum maximum: 0 percent
Available water capacity: Low (about 4.2 inches)

Interpretive Groups

Land capability classification (irrigated): 4w
Land capability (non irrigated): 6w
Ecological site: Sandy Meadow (R067BY029CO)

Typical Profile

Map Unit Description

Weld County, Colorado, Southern Part

0 to 14 inches: loamy sand
14 to 60 inches: loamy sand

Minor Components

Osgood

Percent of map unit: 5 percent

Valent

Percent of map unit: 5 percent