

Map Unit Description

Weld County, Colorado, Southern Part

71 Valent-Loup complex, 0 to 9 percent slopes

Setting

Elevation: 4670 to 4700 feet
Mean annual precipitation: 11 to 19 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 130 to 180 days

Composition

Valent and similar soils: 60 percent
Loup and similar soils: 35 percent
Minor components: 5 percent

Description of Valent

Setting

Landform: Hills, hills, depressions, ridges, potholes
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: Choppy Sands (R067BY022CO)

Typical Profile

0 to 8 inches: fine sand
8 to 60 inches: sand

Description of Loup

Setting

Landform: Swales
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

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40 to 60 inches: sandy loam

Minor Components

Osgood

Percent of map unit: 5 percent