

# 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