

# 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

# Rangeland Productivity and Plant Composition

Weld County, Colorado, Southern Part

Map symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		<i>Lb/Ac</i>	<i>Lb/Ac</i>	<i>Lb/Ac</i>		<i>Pct</i>
70:						
Valent	Deep Sand	2,000	1,200	800	Prairie sandreed	15
					Sand bluestem	15
					Sand sagebrush	15
					Sand dropseed	10
					Indian ricegrass	5
					Little bluestem	5
					Needlegrass	5
					Sandhill muhly	5
					Sideoats grama	5
					Switchgrass	5
					Thickspike wheatgrass	5