

# Map Unit Description

Morgan County, Colorado

**VcD Valent sand, 5 to 25 percent slopes**

## Setting

Elevation: 4280 to 4690 feet  
Mean annual precipitation: 12 to 14 inches  
Mean annual air temperature: 46 to 50 degrees F  
Frost-free period: 140 to 170 days

## Composition

Valent and similar soils: 88 percent  
Minor components: 12 percent

## Description of Valent

### Setting

Landform: Dunes  
Down-slope shape: Convex  
Across-slope shape: Convex  
Parent material: Sandy eolian sands

### Properties and Qualities

Slope: 5 to 25 percent  
Drainage class: Excessively drained  
Capacity of the most limiting layer to transmit water (Ksat): Very high (20.00 to 20.00 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 3 percent  
Gypsum maximum: 0 percent  
Available water capacity: Low (about 4.2 inches)

### Interpretive Groups

Land capability classification (irrigated): 6e  
Land capability (non irrigated): 6e  
Ecological site: Choppy Sands (R067BY022CO)

### Typical Profile

0 to 6 inches: sand  
6 to 14 inches: sand  
14 to 44 inches: sand  
44 to 80 inches: sand

## Minor Components

### Vona soils

Percent of map unit: 7 percent  
Landform: Plains  
Ecological site: Deep Sand (R067BY015CO)  
Other vegetative classification: SANDY PLAINS (067XY024CO\_1)

### Blakeland soils

Percent of map unit: 5 percent  
Landform: Plains  
Ecological site: Deep Sand (R067BY015CO)  
Other vegetative classification: DEEP SANDS (067XY015CO\_2)