

# Map Unit Description

Morgan County, Colorado

## **VmD Vona-Dwyer loamy sands, 5 to 9 percent slopes**

### **Setting**

Elevation: 4370 to 4700 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**

Vona and similar soils: 56 percent  
Dwyer and similar soils: 30 percent  
Minor components: 14 percent

### **Description of Vona**

#### **Setting**

Landform: Hills  
Landform position (two-dimensional): Backslope  
Down-slope shape: Convex  
Across-slope shape: Convex  
Parent material: Coarse-loamy eolian sands

#### **Properties and Qualities**

Slope: 5 to 9 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 10 percent  
Gypsum maximum: 0 percent  
Available water capacity: Low (about 6.0 inches)

#### **Interpretive Groups**

Land capability (non irrigated): 6e  
Ecological site: Sandy Plains (R067BY024CO)

#### **Typical Profile**

0 to 6 inches: loamy sand  
6 to 12 inches: sandy loam  
12 to 25 inches: sandy loam  
25 to 36 inches: sandy loam  
36 to 45 inches: sandy loam  
45 to 80 inches: loamy sand

### **Description of Dwyer**

#### **Setting**

Landform: Hills  
Landform position (two-dimensional): Backslope  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Sandy eolian sands

#### **Properties and Qualities**

Slope: 5 to 9 percent  
Drainage class: Excessively drained  
Capacity of the most limiting layer to transmit water (Ksat): High or very high (6.00 to 20.00 in/hr)  
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 (non irrigated): 6e  
Ecological site: Deep Sand (R067BY015CO)

# Map Unit Description

Morgan County, Colorado

## Typical Profile

0 to 3 inches: loamy sand  
3 to 7 inches: loamy sand  
7 to 20 inches: loamy sand  
20 to 49 inches: loamy sand  
49 to 64 inches: loamy sand

## Minor Components

### Oldest soils

Percent of map unit: 7 percent  
Landform: Plains  
Ecological site: Sandy Plains (R067BY024CO)

### Manter soils

Percent of map unit: 7 percent  
Landform: Hills  
Ecological site: Deep Sand (R067BY015CO)

# Map Unit Description

Morgan County, Colorado

## VoC Vona sandy loam, 3 to 5 percent slopes

### Setting

Elevation: 4420 to 4560 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

Vona and similar soils: 84 percent  
Minor components: 16 percent

### Description of Vona

#### Setting

Landform: Plains  
Down-slope shape: Convex  
Across-slope shape: Convex  
Parent material: Coarse-loamy eolian sands

#### Properties and Qualities

Slope: 3 to 5 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 10 percent  
Gypsum maximum: 0 percent  
Available water capacity: Low (about 6.0 inches)

#### Interpretive Groups

Land capability classification (irrigated): 3e  
Land capability (non irrigated): 4e  
Ecological site: Sandy Plains (R067BY024CO)

#### Typical Profile

0 to 2 inches: sandy loam  
2 to 9 inches: sandy loam  
9 to 21 inches: sandy loam  
21 to 37 inches: sandy loam  
37 to 61 inches: loamy sand  
61 to 80 inches: sandy loam

### Minor Components

#### Oldest soils

Percent of map unit: 13 percent  
Landform: Plains  
Down-slope shape: Convex  
Across-slope shape: Concave  
Ecological site: Sandy Plains (R067BY024CO)

#### Ascalon soils

Percent of map unit: 3 percent  
Landform: Plains  
Down-slope shape: Convex  
Across-slope shape: Concave  
Ecological site: Sandy Plains (R067BY024CO)