

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)