

Map Unit Description

Morgan County, Colorado

OsA Olney sandy loam, terrace, 0 to 1 percent slopes

Setting

Elevation: 4440 to 4600 feet
Mean annual precipitation: 13 to 15 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 135 to 151 days

Composition

Olneest and similar soils: 85 percent
Minor components: 15 percent

Description of Olneest

Setting

Landform: Stream terraces
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous alluvium and/or eolian deposits

Properties and Qualities

Slope: 1 to 3 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.60 to 2.00 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 15 percent
Gypsum maximum: 0 percent
Available water capacity: High (about 9.1 inches)

Interpretive Groups

Land capability classification (irrigated): 2e
Land capability (non irrigated): 3e
Ecological site: Sandy Plains (R067BY024CO)

Typical Profile

0 to 6 inches: sandy loam
6 to 12 inches: sandy loam
12 to 33 inches: loam
33 to 65 inches: very fine sandy loam

Minor Components

Fort collins

Percent of map unit: 8 percent

Vona

Percent of map unit: 7 percent

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)

Map Unit Description

Morgan County, Colorado

VrA Vona sandy loam, terrace, 0 to 1 percent slopes

Setting

Elevation: 4000 to 5500 feet
Mean annual precipitation: 13 to 15 inches
Mean annual air temperature: 48 to 55 degrees F
Frost-free period: 130 to 160 days

Composition

Vona and similar soils: 85 percent
Minor components: 15 percent

Description of Vona

Setting

Landform: Stream terraces
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Limy, loam sandy and/or sand loamy

Properties and Qualities

Slope: 0 to 1 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 6.00 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 15 percent
Gypsum maximum: 0 percent
Available water capacity: Moderate (about 6.5 inches)

Interpretive Groups

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

Typical Profile

0 to 9 inches: sandy loam
9 to 21 inches: sandy loam
21 to 60 inches: loamy fine sand

Minor Components

Fort Collins

Percent of map unit: 10 percent

Gilcrest

Percent of map unit: 5 percent