

Map Unit Description

Weld County, Colorado, Northern Part

4 Ascalon fine sandy loam, 0 to 6 percent slopes

Setting

Elevation: 4500 to 6500 feet
Mean annual precipitation: 13 to 17 inches
Mean annual air temperature: 46 to 57 degrees F
Frost-free period: 130 to 160 days

Composition

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

Description of Ascalon

Setting

Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous loamy alluvium

Properties and Qualities

Slope: 0 to 6 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: 10 percent
Gypsum maximum: 0 percent
Available water capacity: Moderate (about 6.9 inches)

Interpretive Groups

Land capability classification (irrigated): 3e
Land capability (non irrigated): 3e
Ecological site: Loamy Plains (R067BY002CO)

Typical Profile

0 to 8 inches: fine sandy loam
8 to 22 inches: sandy clay loam
22 to 60 inches: sandy loam

Minor Components

Olney

Percent of map unit: 8 percent

Otero

Percent of map unit: 7 percent

Map Unit Description

Weld County, Colorado, Northern Part

69 Treon-Rock outcrop complex, 9 to 40 percent slopes

Setting

Elevation: 5400 to 5700 feet
Mean annual precipitation: 12 to 15 inches
Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 120 to 160 days

Composition

Treon and similar soils: 50 percent
Rock outcrop: 30 percent
Minor components: 20 percent

Description of Treon

Setting

Landform: Escarpments
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous loamy residuum weathered from sandstone

Properties and Qualities

Slope: 9 to 20 percent
Depth to restrictive feature: 6 to 20 inches to Paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low or high (0.06 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: Very low (about 1.6 inches)

Interpretive Groups

Land capability classification (irrigated): 7s
Land capability (non irrigated): 7e
Ecological site: Sandstone Breaks (R067BY056CO)

Typical Profile

0 to 7 inches: fine sandy loam
7 to 11 inches: fine sandy loam
11 to 60 inches: bedrock

Description of Rock outcrop

Setting

Landform: Escarpments
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandstone

Properties and Qualities

Slope: 9 to 40 percent
Depth to restrictive feature: 0 to 0 inches to Lithic bedrock
Capacity of the most limiting layer to transmit water (Ksat): Very low or moderately low (0.00 to 0.06 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 0.0 inches)

Interpretive Groups

Land capability classification (irrigated): 8s
Land capability (non irrigated): 8s

Typical Profile

0 to 60 inches: bedrock

Minor Components

Map Unit Description

Weld County, Colorado, Northern Part

Bushman

Percent of map unit: 10 percent

Nucla

Percent of map unit: 10 percent