

Map Unit Description

Weld County, Colorado, Southern Part

47 Olney fine sandy loam, 1 to 3 percent slopes

Setting

Elevation: 4600 to 5200 feet
Mean annual precipitation: 11 to 15 inches
Mean annual air temperature: 46 to 54 degrees F
Frost-free period: 125 to 175 days

Composition

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

Description of Olney

Setting

Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Mixed deposit outwash

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 (0.57 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: Moderate (about 7.0 inches)

Interpretive Groups

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

Typical Profile

0 to 10 inches: fine sandy loam
10 to 20 inches: sandy clay loam
20 to 25 inches: sandy clay loam
25 to 60 inches: fine sandy loam

Minor Components

Zigweid

Percent of map unit: 10 percent

Vona

Percent of map unit: 5 percent

Map Unit Description

Weld County, Colorado, Southern Part

6 Ascalon sandy loam, 3 to 5 percent slopes

Setting

Landscape: Uplands
Elevation: 4600 to 5200 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: 90 percent
Minor components: 10 percent

Description of Ascalon

Setting

Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium

Properties and Qualities

Slope: 3 to 5 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 8.4 inches)

Interpretive Groups

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

Typical Profile

0 to 8 inches: sandy loam
8 to 18 inches: sandy clay loam
18 to 60 inches: fine sandy loam
60 to 64 inches: fine sandy loam

Minor Components

Stoneham

Percent of map unit: 10 percent