

Weld County, Colorado, Northern Part

44—Olney fine sandy loam, 0 to 6 percent slopes

Map Unit Setting

Elevation: 3,500 to 5,800 feet

Mean annual precipitation: 11 to 15 inches

Mean annual air temperature: 46 to 54 degrees F

Frost-free period: 125 to 175 days

Map Unit 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: Calcareous loamy alluvium

Properties and qualities

Slope: 0 to 6 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.57 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)

Available water capacity: Moderate (about 8.1 inches)

Interpretive groups

Land capability (nonirrigated): 4c

Ecological site: Loamy Plains (R067BY002CO)

Typical profile

0 to 6 inches: Fine sandy loam

6 to 18 inches: Sandy clay loam

18 to 60 inches: Sandy loam

60 to 64 inches: Sandy loam

Minor Components

Stoneham

Percent of map unit: 9 percent

Ascalon

Percent of map unit: 6 percent

Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 8, Apr 30, 2009

Weld County, Colorado, Northern Part

55—Renohill fine sandy loam, 0 to 6 percent slopes

Map Unit Setting

Elevation: 3,600 to 6,200 feet

Mean annual precipitation: 11 to 16 inches

Mean annual air temperature: 46 to 48 degrees F

Frost-free period: 100 to 160 days

Map Unit Composition

Renohill and similar soils: 85 percent

Minor components: 15 percent

Description of Renohill

Setting

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous, clayey loamy residuum weathered from shale

Properties and qualities

Slope: 0 to 6 percent

Depth to restrictive feature: 20 to 40 inches to paralithic bedrock

Drainage class: Well drained

Capacity of the most limiting layer to transmit water

(Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 15 percent

Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)

Available water capacity: Low (about 5.4 inches)

Interpretive groups

Land capability (nonirrigated): 4e

Ecological site: Loamy Plains (R067BY002CO)

Typical profile

0 to 5 inches: Fine sandy loam

5 to 18 inches: Clay

18 to 32 inches: Clay loam

32 to 36 inches: Unweathered bedrock

Minor Components

Shingle

Percent of map unit: 5 percent

Midway

Percent of map unit: 4 percent

Ulm

Percent of map unit: 3 percent

Other soils

Percent of map unit: 3 percent

Data Source Information

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