

Rifle Area, Colorado, Parts of Garfield and Mesa Counties

49—Olney loam, 1 to 3 percent slopes

Map Unit Setting

Elevation: 5,000 to 6,500 feet

Map Unit Composition

Olney and similar soils: 85 percent

Description of Olney

Setting

Landform: Alluvial fans, valley sides

Down-slope shape: Linear, convex

Across-slope shape: Linear, convex

Parent material: Alluvium derived from sandstone and shale

Typical profile

H1 - 0 to 12 inches: neutral, loam

H2 - 12 to 33 inches: moderately alkaline, sandy clay loam

H3 - 33 to 43 inches: moderately alkaline, gravelly sandy clay loam

H4 - 43 to 60 inches: moderately alkaline, very gravelly sandy loam

Properties and qualities

Slope: 1 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high to high (0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 15 percent

Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)

Available water storage in profile: Moderate (about 7.6 inches)

Interpretive groups

Farmland classification: Prime farmland if irrigated

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 3c

Hydrologic Soil Group: B

Ecological site: Rolling Loam (R048AY298CO)

Data Source Information

Soil Survey Area: Rifle Area, Colorado, Parts of Garfield and Mesa Counties

Survey Area Data: Version 7, Dec 23, 2013