

Rifle Area, Colorado, Parts of Garfield and Mesa Counties

45—Morval-Tridell complex, 6 to 25 percent slopes

Map Unit Setting

Elevation: 6,500 to 8,000 feet

Map Unit Composition

Morval and similar soils: 55 percent

Tridell and similar soils: 30 percent

Description of Morval

Setting

Landform: Mesas, alluvial fans

Down-slope shape: Convex, linear

Across-slope shape: Convex, linear

Parent material: Reworked alluvium derived from sandstone and/or reworked alluvium derived from basalt

Typical profile

H1 - 0 to 5 inches: slightly alkaline, loam

H2 - 5 to 17 inches: moderately alkaline, clay loam

H3 - 17 to 27 inches: moderately alkaline, stony clay loam

H4 - 27 to 60 inches: moderately alkaline, stony loam

Properties and qualities

Slope: 6 to 12 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 (0.20 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 25 percent

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

Available water storage in profile: Moderate (about 8.4 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: C

Ecological site: Deep Loam (R048AY292CO)

Description of Tridell

Setting

Landform: Mesas, alluvial fans

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Reworked alluvium derived from sandstone and/or reworked alluvium derived from basalt

Typical profile

H1 - 0 to 10 inches: moderately alkaline, stony loam

H2 - 10 to 60 inches: moderately alkaline, very stony loam

Properties and qualities

Slope: 6 to 25 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 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 30 percent

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

Available water storage in profile: Low (about 5.2 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: A

Data Source Information

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

Survey Area Data: Version 7, Dec 23, 2013