

Rifle Area, Colorado, Parts of Garfield and Mesa Counties

66—Torriorthents-Camborthids-Rock outcrop complex, steep

Map Unit Setting

Elevation: 5,000 to 8,500 feet

Mean annual precipitation: 10 to 15 inches

Mean annual air temperature: 39 to 46 degrees F

Frost-free period: 80 to 105 days

Map Unit Composition

Torriorthents, steep, and similar soils: 45 percent

Camborthids, steep, and similar soils: 20 percent

Rock outcrop, steep: 15 percent

Description of Torriorthents, Steep

Setting

Landform: Mountainsides

Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Mountainflank, base slope

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Stony, basaltic alluvium derived from sandstone and shale

Typical profile

H1 - 0 to 4 inches: neutral, variable

H2 - 4 to 30 inches: neutral, fine sandy loam

H3 - 30 to 34 inches: , unweathered bedrock

Properties and qualities

Slope: 15 to 70 percent

Depth to restrictive feature: 4 to 30 inches to lithic bedrock

Natural 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 in profile: 5 percent

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

Available water storage in profile: Very low (about 2.4 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

Description of Camborthids, Steep

Setting

Landform: Mountainsides

Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Mountainflank, base slope

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Stony, basaltic alluvium derived from sandstone and shale

Typical profile

H1 - 0 to 4 inches: neutral, variable

H2 - 4 to 30 inches: neutral, clay loam

H3 - 30 to 34 inches: , unweathered bedrock

Properties and qualities

Slope: 15 to 65 percent

Depth to restrictive feature: 15 to 60 inches to lithic bedrock

Natural 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 in profile: 10 percent

Gypsum, maximum in profile: 2 percent

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

Available water storage in profile: Low (about 4.0 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: C

Description of Rock Outcrop, Steep

Setting

Landform: Mountainsides

Landform position (three-dimensional): Free face

Down-slope shape: Convex

Across-slope shape: Convex

Typical profile

H1 - 0 to 60 inches: , unweathered bedrock

Properties and qualities

Slope: 15 to 70 percent

Depth to restrictive feature: 0 inches to paralithic bedrock

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately high (0.00 to 0.20 in/hr)

Available water storage in profile: Very low (about 0.0 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Data Source Information

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

Survey Area Data: Version 7, Dec 23, 2013