

Rifle Area, Colorado, Parts of Garfield and Mesa Counties

62—Rock outcrop-Torriorthents complex, very steep

Map Unit Setting

National map unit symbol: jnz0

Elevation: 5,800 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

Farmland classification: Not prime farmland

Map Unit Composition

Rock outcrop: 65 percent

Torriorthents and similar soils: 30 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Rock Outcrop

Setting

Landform: Hillslopes, escarpments, plateaus

Landform position (two-dimensional): Shoulder

Landform position (three-dimensional): Free face

Down-slope shape: Convex, concave

Across-slope shape: Convex, concave

Parent material: Very stony colluvium derived from calcareous shale

Typical profile

H1 - 0 to 60 inches: unweathered bedrock

Properties and qualities

Slope: 50 to 80 percent

Depth to restrictive feature: 0 inches to paralithic bedrock

Runoff class: Very high

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

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 8s

Hydric soil rating: No

Description of Torriorthents

Setting

Landform: Hillslopes, plateaus

Landform position (two-dimensional): Shoulder

Landform position (three-dimensional): Free face
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Alluvium derived from calcareous shale

Typical profile

H1 - 0 to 4 inches: variable
H2 - 4 to 30 inches: fine sandy loam
H3 - 30 to 34 inches: unweathered bedrock

Properties and qualities

Slope: 50 to 80 percent
Depth to restrictive feature: 4 to 30 inches to lithic bedrock
Natural drainage class: Well drained
Runoff class: High
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 to very slightly saline (0.0 to 2.0 mmhos/cm)
Available water storage in profile: Very low (about 2.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8e
Hydrologic Soil Group: D
Hydric soil rating: No

Minor Components

Nihill

Percent of map unit: 5 percent
Landform: Plateaus, hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Free face
Hydric soil rating: No

Data Source Information

Soil Survey Area: Rifle Area, Colorado, Parts of Garfield and Mesa Counties
Survey Area Data: Version 11, Sep 10, 2018