

Map Unit Description

Rifle Area, Colorado, Parts of Garfield and Mesa Counties

45 Morval-Tridell complex, 6 to 25 percent slopes

Setting

Elevation: 6500 to 8000 feet

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

Properties and Qualities

Slope: 6 to 12 percent

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate maximum: 25 percent

Gypsum maximum: 0 percent

Available water capacity: Moderate (about 8.4 inches)

Interpretive Groups

Land capability (non irrigated): 4e

Ecological site: Deep Loam (R048AY292CO)

Typical Profile

0 to 5 inches: loam

5 to 17 inches: clay loam

17 to 27 inches: stony clay loam

27 to 60 inches: stony loam

Description of Tridell

Setting

Landform: Alluvial fans, mesas

Down-slope shape: Convex

Across-slope shape: Convex

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

Properties and Qualities

Slope: 6 to 25 percent

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.60 to 6.00 in/hr)

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate maximum: 30 percent

Gypsum maximum: 0 percent

Available water capacity: Low (about 5.2 inches)

Interpretive Groups

Land capability (non irrigated): 6e

Typical Profile

0 to 10 inches: stony loam

10 to 60 inches: very stony loam

Map Unit Description

Rifle Area, Colorado, Parts of Garfield and Mesa Counties

67 Torriorthents-Rock outcrop complex, steep

Setting

Landscape: Foothills
Elevation: 5800 to 8500 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 39 to 46 degrees F
Frost-free period: 80 to 105 days

Composition

Torriorthents, steep, and similar soils: 60 percent
Rock outcrop, steep: 25 percent

Description of Torriorthents, steep

Setting

Landform: Mountainsides
Landform position (two-dimensional): Footslope
Down-slope shape: Concave, convex
Across-slope shape: Concave, convex
Parent material: Stony, basaltic alluvium derived from sandstone and shale

Properties and Qualities

Slope: 15 to 70 percent
Depth to restrictive feature: 4 to 30 inches to Lithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low or moderately high (0.06 to 0.20 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 5 percent
Gypsum maximum: 0 percent
Available water capacity: Very low (about 2.4 inches)

Interpretive Groups

Land capability (non irrigated): 7e

Typical Profile

0 to 4 inches: variable
4 to 30 inches: fine sandy loam
30 to 34 inches: unweathered bedrock

Description of Rock outcrop, steep

Setting

Landform: Mountainsides
Down-slope shape: Convex
Across-slope shape: Convex

Properties and Qualities

Slope: 15 to 70 percent
Depth to restrictive feature: 0 to 0 inches to Paralithic bedrock
Capacity of the most limiting layer to transmit water (Ksat): Very low or moderately high (0.00 to 0.20 in/hr)
Frequency of flooding: None
Available water capacity: Very low (about 0.0 inches)

Interpretive Groups

Land capability (non irrigated): 8s

Typical Profile

0 to 60 inches: unweathered bedrock

Map Unit Description

Rifle Area, Colorado, Parts of Garfield and Mesa Counties

68 **Vale silt loam, 3 to 6 percent slopes**

Setting

Elevation: 5000 to 7200 feet

Composition

Vale and similar soils: 90 percent

Description of Vale

Setting

Landform: Alluvial fans, terraces, mesas
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear
Parent material: Calcareous eolian deposits

Properties and Qualities

Slope: 3 to 6 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 15 percent
Gypsum maximum: 0 percent
Available water capacity: High (about 10.5 inches)

Interpretive Groups

Land capability classification (irrigated): 3e
Land capability (non irrigated): 3e
Ecological site: Deep Loam (R048AY292CO)

Typical Profile

0 to 7 inches: silt loam
7 to 11 inches: silt loam
11 to 26 inches: silty clay loam
26 to 60 inches: silt loam