

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

65 Torrifluvents, nearly level

Setting

Elevation: 5000 to 7000 feet
Mean annual precipitation: 12 to 15 inches
Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 90 to 120 days

Composition

Torrifluvents and similar soils: 85 percent
Minor components: 15 percent

Description of Torrifluvents

Setting

Landform: Distributaries, rivers, flood plains
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear
Parent material: Alluvium

Properties and Qualities

Slope: 0 to 6 percent
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.60 to 2.00 in/hr)
Depth to water table: About 12 to 36 inches
Frequency of flooding: Occasional
Frequency of ponding: None
Calcium carbonate maximum: 5 percent
Gypsum maximum: 1 percent
Salinity maximum: Non saline or slightly saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio maximum: 2.0
Available water capacity: Moderate (about 7.6 inches)

Interpretive Groups

Land capability (non irrigated): 7w

Typical Profile

0 to 36 inches: loam
36 to 60 inches: sand

Minor Components

Wann

Percent of map unit: 10 percent
Landform: Terraces

Fluvaquents

Percent of map unit: 5 percent
Landform: Marshes