

Rifle Area, Colorado, Parts of Garfield and Mesa Counties

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

Map Unit Setting

National map unit symbol: jnyd

Elevation: 6,500 to 8,000 feet

Farmland classification: Not prime farmland

Map Unit Composition

Morval and similar soils: 55 percent

Tridell and similar soils: 30 percent

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

Description of Morval

Setting

Landform: Alluvial fans, mesas

Down-slope shape: Linear, convex

Across-slope shape: Linear, convex

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

Typical profile

H1 - 0 to 5 inches: loam

H2 - 5 to 17 inches: clay loam

H3 - 17 to 27 inches: stony clay loam

H4 - 27 to 60 inches: stony loam

Properties and qualities

Slope: 6 to 12 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: High

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 to very slightly saline (0.0 to 2.0 mmhos/cm)

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

Interpretive groups

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: 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

Typical profile

H1 - 0 to 10 inches: stony loam

H2 - 10 to 60 inches: very stony loam

Properties and qualities

Slope: 6 to 25 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

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 to very slightly saline (0.0 to 2.0 mmhos/cm)

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

Interpretive groups

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 9, Sep 22, 2015

Rifle Area, Colorado, Parts of Garfield and Mesa Counties

71—Villa Grove-Zoltay loams, 15 to 30 percent slopes

Map Unit Setting

National map unit symbol: jnzb

Elevation: 7,500 to 7,600 feet

Farmland classification: Not prime farmland

Map Unit Composition

Villa grove and similar soils: 50 percent

Zoltay and similar soils: 40 percent

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

Description of Villa Grove

Setting

Landform: Alluvial fans, mountainsides

Landform position (three-dimensional): Lower third of mountainflank

Down-slope shape: Linear, convex

Across-slope shape: Linear, convex

Parent material: Mixed alluvium

Typical profile

H1 - 0 to 4 inches: loam

H2 - 4 to 15 inches: clay loam

H3 - 15 to 60 inches: loam

Properties and qualities

Slope: 15 to 30 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Very high

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: 15 percent

Salinity, maximum in profile: Very slightly saline to moderately saline
(2.0 to 8.0 mmhos/cm)

Available water storage in profile: Moderate (about 8.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: C

Ecological site: Brushy Loam (R048AY238CO)

Description of Zoltay

Setting

Landform: Alluvial fans, mountainsides

Landform position (three-dimensional): Lower third of mountain flank

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Mixed alluvium

Typical profile

H1 - 0 to 19 inches: loam

H2 - 19 to 23 inches: cobbly clay loam

H3 - 23 to 36 inches: cobbly clay

H4 - 36 to 60 inches: cobbly clay

Properties and qualities

Slope: 15 to 30 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Very 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: 15 percent

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

Available water storage in profile: Moderate (about 7.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: C

Ecological site: Brushy Loam (R048AY238CO)

Data Source Information

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

Survey Area Data: Version 9, Sep 22, 2015