

## 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 mountainflank

*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)

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