

## Rifle Area, Colorado, Parts of Garfield and Mesa Counties

### 53—Parachute-Rhone loams, 5 to 30 percent slopes

#### Map Unit Setting

*National map unit symbol:* jnyp  
*Elevation:* 7,600 to 8,600 feet  
*Mean annual precipitation:* 18 to 22 inches  
*Mean annual air temperature:* 36 to 40 degrees F  
*Frost-free period:* 55 to 75 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Parachute and similar soils:* 55 percent  
*Rhone and similar soils:* 30 percent  
*Irigul and similar soils:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Parachute

##### Setting

*Landform:* Mountain slopes  
*Landform position (three-dimensional):* Mountaintop, mountainflank  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Colluvium over residuum weathered from sandstone and shale

##### Typical profile

*A - 0 to 5 inches:* loam  
*Bw1 - 5 to 18 inches:* loam  
*Bw2 - 18 to 29 inches:* extremely cobbly loam  
*R - 29 to 59 inches:* bedrock

##### Properties and qualities

*Slope:* 5 to 30 percent  
*Depth to restrictive feature:* 20 to 40 inches to lithic bedrock  
*Natural drainage class:* Well drained  
*Capacity of the most limiting layer to transmit water (Ksat):* Low to moderately high (0.01 to 0.57 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Salinity, maximum in profile:* Nonsaline (0.0 to 1.0 mmhos/cm)  
*Available water storage in profile:* Low (about 3.9 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 6e  
*Hydrologic Soil Group:* C

*Ecological site:* Mountain Loam (R048AY228CO)  
*Hydric soil rating:* No

## Description of Rhone

### Setting

*Landform:* Mountain slopes  
*Landform position (three-dimensional):* Mountainflank, mountaintop  
*Down-slope shape:* Convex  
*Across-slope shape:* Concave  
*Parent material:* Colluvium over residuum weathered from sandstone and shale

### Typical profile

*A1 - 0 to 8 inches:* loam  
*A2 - 8 to 28 inches:* sandy clay loam  
*C - 28 to 52 inches:* very channery sandy clay loam  
*R - 52 to 60 inches:* bedrock

### Properties and qualities

*Slope:* 5 to 30 percent  
*Depth to restrictive feature:* 40 to 60 inches to lithic bedrock  
*Natural drainage class:* Well drained  
*Capacity of the most limiting layer to transmit water (Ksat):* Low to moderately high (0.01 to 0.57 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Salinity, maximum in profile:* Nonsaline (0.0 to 1.0 mmhos/cm)  
*Available water storage in profile:* Moderate (about 7.8 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 6e  
*Hydrologic Soil Group:* B  
*Ecological site:* Mountain Loam (R048AY228CO)  
*Hydric soil rating:* No

## Description of Irigul

### Setting

*Landform:* Mountain slopes  
*Landform position (three-dimensional):* Mountaintop, mountainflank  
*Down-slope shape:* Convex  
*Across-slope shape:* Linear  
*Parent material:* Colluvium over residuum weathered from sandstone and shale

### Typical profile

*A1 - 0 to 6 inches:* channery loam  
*A2 - 6 to 13 inches:* very channery loam  
*R - 13 to 60 inches:* bedrock

### Properties and qualities

*Slope:* 5 to 12 percent

*Depth to restrictive feature:* 10 to 20 inches to lithic bedrock  
*Natural drainage class:* Well drained  
*Capacity of the most limiting layer to transmit water (Ksat):* Low to moderately high (0.01 to 0.57 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Available water storage in profile:* Very low (about 1.5 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* D  
*Ecological site:* Loamy Slopes (R048AY303CO)  
*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Rifle Area, Colorado, Parts of Garfield and Mesa Counties  
Survey Area Data: Version 12, Sep 13, 2019

## Rifle Area, Colorado, Parts of Garfield and Mesa Counties

### 61—Rhone loam, 30 to 70 percent slopes

#### Map Unit Setting

*National map unit symbol:* jnyz  
*Elevation:* 7,600 to 8,600 feet  
*Frost-free period:* 45 to 75 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Rhone and similar soils:* 85 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Rhone

##### Setting

*Landform:* Ridges, mountainsides  
*Landform position (three-dimensional):* Mountaintop, mountainflank  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Marl and/or residuum weathered from sandstone

##### Typical profile

*H1 - 0 to 8 inches:* loam  
*H2 - 8 to 28 inches:* sandy clay loam  
*H3 - 28 to 52 inches:* very channery sandy clay loam  
*H4 - 52 to 56 inches:* unweathered bedrock

##### Properties and qualities

*Slope:* 30 to 70 percent  
*Depth to restrictive feature:* 40 to 60 inches to paralithic bedrock  
*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  
*Available water capacity:* Moderate (about 6.2 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* B  
*Ecological site:* R048AY238CO

*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Rifle Area, Colorado, Parts of Garfield and Mesa Counties  
Survey Area Data: Version 13, Jun 5, 2020

## Rifle Area, Colorado, Parts of Garfield and Mesa Counties

### 38—Irigul-Starman channery loams, 5 to 50 percent slopes

#### Map Unit Setting

*National map unit symbol:* jny4  
*Elevation:* 7,800 to 9,000 feet  
*Frost-free period:* 25 to 75 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Irigul and similar soils:* 55 percent  
*Starman and similar soils:* 30 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Irigul

##### Setting

*Landform:* Mountainsides, ridges  
*Landform position (three-dimensional):* Mountainflank  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Marl and/or residuum weathered from sandstone

##### Typical profile

*H1 - 0 to 6 inches:* channery loam  
*H2 - 6 to 17 inches:* extremely channery sandy clay loam  
*H3 - 17 to 21 inches:* unweathered bedrock

##### Properties and qualities

*Slope:* 5 to 50 percent  
*Depth to restrictive feature:* 10 to 20 inches to lithic bedrock  
*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  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Available water capacity:* Very low (about 1.2 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* D  
*Ecological site:* R048AY303CO  
*Hydric soil rating:* No

## Description of Starman

### Setting

*Landform:* Mountainsides, ridges  
*Landform position (three-dimensional):* Mountainflank  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Marl and/or residuum weathered from sandstone

### Typical profile

*H1 - 0 to 3 inches:* channery loam  
*H2 - 3 to 13 inches:* extremely channery loam, very channery loam  
*H2 - 3 to 13 inches:* unweathered bedrock  
*H3 - 13 to 17 inches:*

### Properties and qualities

*Slope:* 5 to 50 percent  
*Depth to restrictive feature:* 3 to 20 inches to lithic bedrock  
*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 content:* 10 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Available water capacity:* Very low (about 1.6 inches)

### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* D  
*Ecological site:* R048AY235CO - Dry Exposure  
*Hydric soil rating:* No

## Minor Components

### Parachute

*Percent of map unit:* 15 percent  
*Landform:* Mountainsides, ridges  
*Landform position (three-dimensional):* Mountainflank  
*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Rifle Area, Colorado, Parts of Garfield and Mesa Counties  
Survey Area Data: Version 13, Jun 5, 2020