

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