

Weld County, Colorado, Northern Part

3—Argiustolls-Rock outcrop complex, 0 to 9 percent slopes

Map Unit Setting

National map unit symbol: 35zf
Elevation: 3,500 to 7,000 feet
Mean annual precipitation: 14 to 18 inches
Mean annual air temperature: 45 to 54 degrees F
Frost-free period: 80 to 150 days
Farmland classification: Not prime farmland

Map Unit Composition

Argiustolls and similar soils: 45 percent
Rock outcrop: 35 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Argiustolls

Setting

Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Silt loam sandy sandstone

Typical profile

H1 - 0 to 60 inches: variable
H2 - 60 to 64 inches: unweathered bedrock

Properties and qualities

Slope: 0 to 9 percent
Depth to restrictive feature: 20 to 60 inches to lithic bedrock
Natural drainage class: Well drained
Runoff class: Medium
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: 5 percent
Available water storage in profile: High (about 10.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: C
Ecological site: Loamy Plains (R067BY002CO)
Hydric soil rating: No

Description of Rock Outcrop

Setting

Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandstone

Typical profile

H1 - 0 to 60 inches: unweathered bedrock

Properties and qualities

Slope: 0 to 9 percent
Depth to restrictive feature: 0 inches to paralithic bedrock
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)
Available water storage in profile: Very low (about 0.0 inches)

Interpretive groups

Land capability classification (irrigated): 8s
Land capability classification (nonirrigated): 8s
Hydrologic Soil Group: D
Hydric soil rating: No

Minor Components

Stoneham

Percent of map unit: 10 percent
Hydric soil rating: No

Olney

Percent of map unit: 5 percent
Hydric soil rating: No

Renohill

Percent of map unit: 5 percent
Hydric soil rating: No

Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part
Survey Area Data: Version 12, Oct 10, 2017