

Todd LC 25-765
TAN-RS9W-SEC 25
SESW

Weld County, Colorado, Northern Part

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

Map Unit Setting

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

Map Unit Composition

Argiustolls and similar soils: 45 percent
Rock outcrop: 35 percent
Minor components: 20 percent

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: slightly alkaline, 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
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

Farmland classification: Not prime farmland
Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: C
Ecological site: Loamy Plains (R067BY002CO)

Description of Rock Outcrop

Setting

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

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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

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

Farmland classification: Not prime farmland

Land capability classification (irrigated): 8s

Land capability classification (nonirrigated): 8s

Hydrologic Soil Group: D

Minor Components

Stoneham

Percent of map unit: 10 percent

Olney

Percent of map unit: 5 percent

Renohill

Percent of map unit: 5 percent

Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 9, Dec 23, 2013

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51—Peetz gravelly sandy loam, 5 to 20 percent slopes

Map Unit Setting

Elevation: 3,500 to 6,500 feet
Mean annual precipitation: 15 to 19 inches
Mean annual air temperature: 48 to 50 degrees F
Frost-free period: 120 to 150 days

Map Unit Composition

Peetz and similar soils: 80 percent
Minor components: 20 percent

Description of Peetz

Setting

Landform: Breaks, ridges
Landform position (two-dimensional): Backslope, shoulder
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous gravelly alluvium

Typical profile

H1 - 0 to 4 inches: neutral, gravelly sandy loam
H2 - 4 to 60 inches: moderately alkaline, very gravelly sand

Properties and qualities

Slope: 5 to 20 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Somewhat excessively drained
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 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: 20 percent
Available water storage in profile: Low (about 3.1 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: A
Ecological site: Gravel Breaks (R067BY063CO)

Minor Components

Wages

Percent of map unit: 10 percent

Altvan

Percent of map unit: 5 percent

Ascalon

Percent of map unit: 3 percent

Bushman

Percent of map unit: 2 percent

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Weld County, Colorado, Northern Part

60—Shingle clay loam, 0 to 9 percent slopes

Map Unit Setting

Elevation: 3,600 to 5,500 feet
Mean annual precipitation: 10 to 13 inches
Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 110 to 140 days

Map Unit Composition

Shingle and similar soils: 80 percent
Minor components: 20 percent

Description of Shingle

Setting

Landform: Ridges, breaks, plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous, clayey loamy residuum weathered from shale

Typical profile

H1 - 0 to 4 inches: moderately alkaline, clay loam
H2 - 4 to 11 inches: moderately alkaline, clay loam
H3 - 11 to 15 inches: , unweathered bedrock

Properties and qualities

Slope: 0 to 9 percent
Depth to restrictive feature: 10 to 20 inches to paralithic bedrock
Natural drainage class: Well drained
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 (0.0 to 2.0 mmhos/cm)
Available water storage in profile: Very low (about 2.1 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: D
Ecological site: Shaly Plains (R067BY045CO)

Minor Components

Renohill

Percent of map unit: 10 percent

Keota

Percent of map unit: 5 percent

Thedalund

Percent of map unit: 5 percent

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