

Weld County, Colorado, Northern Part

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

Map Unit Setting

National map unit symbol: 3606
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
Farmland classification: Not prime farmland

Map Unit Composition

Peetz and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

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: gravelly sandy loam
H2 - 4 to 60 inches: 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
Runoff class: Low
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

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

Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 10, Sep 23, 2014

Weld County, Colorado, Northern Part

69—Treon-Rock outcrop complex, 9 to 40 percent slopes

Map Unit Setting

National map unit symbol: 360t
Elevation: 5,400 to 5,700 feet
Mean annual precipitation: 12 to 15 inches
Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 120 to 160 days
Farmland classification: Not prime farmland

Map Unit Composition

Treon and similar soils: 50 percent
Rock outcrop: 30 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Treon

Setting

Landform: Escarpments
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous loamy residuum weathered from sandstone

Typical profile

H1 - 0 to 7 inches: fine sandy loam
H2 - 7 to 11 inches: fine sandy loam
Cr - 11 to 60 inches: bedrock

Properties and qualities

Slope: 9 to 20 percent
Depth to restrictive feature: 6 to 20 inches to paralithic bedrock
Natural drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat):
Moderately low to high (0.06 to 2.00 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 1.6 inches)

Interpretive groups

Land capability classification (irrigated): 7s
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: Sandstone breaks (R067BY056CO)

Description of Rock Outcrop

Setting

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

Typical profile

R - 0 to 60 inches: bedrock

Properties and qualities

Slope: 9 to 40 percent
Depth to restrictive feature: 0 inches to lithic bedrock
Runoff class: Very 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

Minor Components

Bushman

Percent of map unit: 10 percent

Nucla

Percent of map unit: 10 percent

Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part
Survey Area Data: Version 10, Sep 23, 2014

Weld County, Colorado, Northern Part

81—Treon-Aberone fine sandy loams, 6 to 30 percent slopes

Map Unit Setting

National map unit symbol: 361b
Elevation: 5,000 to 6,500 feet
Mean annual precipitation: 15 to 17 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 115 to 125 days
Farmland classification: Not prime farmland

Map Unit Composition

Treon and similar soils: 60 percent
Aberone and similar soils: 30 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Treon

Setting

Landform: Hills
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Residuum weathered from sandstone

Typical profile

A - 0 to 8 inches: fine sandy loam
Ck - 8 to 16 inches: fine sandy loam
Cr - 16 to 60 inches: bedrock

Properties and qualities

Slope: 15 to 30 percent
Depth to restrictive feature: 10 to 20 inches to paralithic bedrock
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: 5 percent
Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water storage in profile: Very low (about 2.3 inches)

Interpretive groups

Land capability classification (irrigated): 7e
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D
Ecological site: Shallow sandy (15-17sp) (R067XY266WY)

Description of Aberone

Setting

Landform: Draws, terraces, hills

Down-slope shape: Linear

Across-slope shape: Convex

Parent material: Alluvium and/or colluvium derived from sandstone

Typical profile

A - 0 to 7 inches: fine sandy loam

B - 7 to 16 inches: sandy loam

Ck - 16 to 60 inches: very gravelly sandy loam

Properties and qualities

Slope: 6 to 15 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): 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: 70 percent

Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)

Available water storage in profile: Low (about 3.8 inches)

Interpretive groups

Land capability classification (irrigated): 6s

Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: A

Ecological site: Sandy (15-17sp) (R067XY250WY)

Minor Components

Vetal

Percent of map unit: 10 percent

Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 10, Sep 23, 2014