

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

58—Rosebud fine sandy loam, 0 to 6 percent slopes

Map Unit Setting

National map unit symbol: 360f

Elevation: 2,500 to 5,500 feet

Mean annual precipitation: 14 to 19 inches

Mean annual air temperature: 46 to 57 degrees F

Frost-free period: 120 to 150 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Rosebud and similar soils: 85 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Rosebud

Setting

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous loamy residuum weathered from sandstone

Typical profile

H1 - 0 to 5 inches: fine sandy loam

H2 - 5 to 10 inches: clay loam

H3 - 10 to 19 inches: clay loam

H4 - 19 to 24 inches: sandy clay loam

H5 - 24 to 38 inches: sandy loam

H6 - 38 to 41 inches: weathered bedrock

Properties and qualities

Slope: 0 to 6 percent

Depth to restrictive feature: 20 to 40 inches to paralithic bedrock

Natural drainage class: Well drained

Runoff class: Low

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)

Sodium adsorption ratio, maximum in profile: 10.0

Available water storage in profile: Low (about 5.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C
Ecological site: Loamy plains (R067BY002CO)

Minor Components

Ascalon

Percent of map unit: 9 percent

Platner

Percent of map unit: 6 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

59—Rosebud fine sandy loam, 6 to 9 percent slopes

Map Unit Setting

National map unit symbol: 360g
Elevation: 2,500 to 5,500 feet
Mean annual precipitation: 14 to 19 inches
Mean annual air temperature: 46 to 57 degrees F
Frost-free period: 120 to 150 days
Farmland classification: Not prime farmland

Map Unit Composition

Rosebud and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Rosebud

Setting

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

Typical profile

H1 - 0 to 4 inches: fine sandy loam
H2 - 4 to 16 inches: clay loam
H3 - 16 to 22 inches: sandy clay loam
H4 - 22 to 28 inches: sandy loam
H5 - 28 to 31 inches: weathered bedrock

Properties and qualities

Slope: 6 to 9 percent
Depth to restrictive feature: 20 to 40 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 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)
Sodium adsorption ratio, maximum in profile: 10.0
Available water storage in profile: Low (about 4.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: C
Ecological site: Loamy plains (R067BY002CO)

Minor Components

Keith

Percent of map unit: 9 percent

Ascalon

Percent of map unit: 6 percent

Data Source Information

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