

Weld County, Colorado, Northern Part

52—Peetz-Altvan complex, 0 to 20 percent slopes

Map Unit Setting

National map unit symbol: 3607

Elevation: 3,500 to 6,500 feet

Mean annual precipitation: 14 to 19 inches

Mean annual air temperature: 46 to 50 degrees F

Frost-free period: 120 to 150 days

Farmland classification: Not prime farmland

Map Unit Composition

Peetz and similar soils: 40 percent

Altvan and similar soils: 35 percent

Minor components: 25 percent

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

Description of Peetz

Setting

Landform: Plains, breaks, ridges

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: 0 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: Sandstone Breaks (R067BY056CO)

Description of Altvan

Setting

Landform: Breaks, plains, ridges

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous, gravelly alluvium

Typical profile

H1 - 0 to 3 inches: fine sandy loam

H2 - 3 to 19 inches: sandy clay loam

H3 - 19 to 60 inches: gravelly coarse sand

Properties and qualities

Slope: 0 to 15 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat):

Moderately high to high (0.20 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: 5 percent

Available water storage in profile: Low (about 4.9 inches)

Interpretive groups

Land capability classification (irrigated): 6e

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: B

Ecological site: Loamy Plains (R067BY002CO)

Minor Components

Bushman

Percent of map unit: 15 percent

Otero

Percent of map unit: 5 percent

Paoli

Percent of map unit: 5 percent

Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 10, Sep 23, 2014