

Weld County, Colorado, Northern Part

47—Otero sandy loam, 3 to 9 percent slopes

Map Unit Setting

National map unit symbol: 3601

Elevation: 4,500 to 5,500 feet

Mean annual precipitation: 12 to 15 inches

Mean annual air temperature: 48 to 52 degrees F

Frost-free period: 130 to 180 days

Farmland classification: Not prime farmland

Map Unit Composition

Otero and similar soils: 85 percent

Minor components: 15 percent

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

Description of Otero

Setting

Landform: Fans, plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous loamy alluvium and/or colluvium

Typical profile

H1 - 0 to 5 inches: sandy loam

H2 - 5 to 60 inches: fine sandy loam, sandy loam

H2 - 5 to 60 inches:

Properties and qualities

Slope: 3 to 9 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):

Moderately high to high (0.57 to 5.95 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 10 percent

Salinity, maximum in profile: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)

Available water storage in profile: Very high (about 14.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: A

Ecological site: Sandy Plains (R067BY024CO)

Hydric soil rating: No

Minor Components

Stoneham

Percent of map unit: 7 percent

Hydric soil rating: No

Kim

Percent of map unit: 3 percent

Hydric soil rating: No

Bushman

Percent of map unit: 3 percent

Hydric soil rating: No

Mitchell

Percent of map unit: 2 percent

Hydric soil rating: No

Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 11, Sep 22, 2016

Weld County, Colorado, Northern Part

49—Paoli fine sandy loam, 0 to 6 percent slopes

Map Unit Setting

National map unit symbol: 3603

Elevation: 3,500 to 6,500 feet

Mean annual precipitation: 13 to 17 inches

Mean annual air temperature: 46 to 48 degrees F

Frost-free period: 130 to 150 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Paoli and similar soils: 90 percent

Minor components: 10 percent

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

Description of Paoli

Setting

Landform: Alluvial fans

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous loamy alluvium

Typical profile

H1 - 0 to 15 inches: fine sandy loam

H2 - 15 to 45 inches: sandy loam

H3 - 45 to 60 inches: sandy loam

Properties and qualities

Slope: 0 to 6 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Very 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: 15 percent

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

Available water storage in profile: High (about 9.1 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: A

Ecological site: Sandy Plains (R067BY024CO)

Hydric soil rating: No

Minor Components

Haverson

Percent of map unit: 8 percent

Hydric soil rating: No

Fluvaquentic haplustolls

Percent of map unit: 2 percent

Landform: Terraces

Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 11, Sep 22, 2016

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)

Hydric soil rating: No

Minor Components

Wages

Percent of map unit: 10 percent

Hydric soil rating: No

Altvan

Percent of map unit: 5 percent

Hydric soil rating: No

Ascalon

Percent of map unit: 3 percent

Hydric soil rating: No

Bushman

Percent of map unit: 2 percent

Hydric soil rating: No

Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 11, Sep 22, 2016