

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: sandy loam, fine 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 12, Oct 10, 2017

Weld County, Colorado, Northern Part

61—Stoneham fine sandy loam, 0 to 6 percent slopes

Map Unit Setting

National map unit symbol: 360k

Elevation: 4,000 to 6,500 feet

Mean annual precipitation: 12 to 16 inches

Mean annual air temperature: 48 to 52 degrees F

Frost-free period: 130 to 170 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Stoneham and similar soils: 90 percent

Minor components: 10 percent

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

Description of Stoneham

Setting

Landform: Alluvial fans, plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous loamy alluvium

Typical profile

H1 - 0 to 5 inches: fine sandy loam

H2 - 5 to 8 inches: clay loam

H3 - 8 to 14 inches: loam

H4 - 14 to 60 inches: sandy loam, gravelly sandy loam

H4 - 14 to 60 inches:

Properties and qualities

Slope: 0 to 6 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 (0.60 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 to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water storage in profile: High (about 11.2 inches)

Interpretive groups

Land capability classification (irrigated): 4e

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: B

Ecological site: Loamy Plains (R067BY002CO)

Hydric soil rating: No

Minor Components

Mitchell

Percent of map unit: 5 percent

Hydric soil rating: No

Kim

Percent of map unit: 5 percent

Hydric soil rating: No

Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 12, Oct 10, 2017