

Weld County, Colorado, Southern Part

50—Otero sandy loam, 0 to 1 percent slopes

Map Unit Setting

Elevation: 4,700 to 5,250 feet

Mean annual precipitation: 12 to 15 inches

Mean annual air temperature: 48 to 52 degrees F

Frost-free period: 130 to 180 days

Map Unit Composition

Otero and similar soils: 85 percent

Minor components: 15 percent

Description of Otero

Setting

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Eolian deposits and/or mixed outwash

Properties and qualities

Slope: 0 to 1 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

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 content: 10 percent

Maximum salinity: Nonsaline to very slightly saline (0.0 to 4.0 mmhos/cm)

Available water capacity: Moderate (about 7.7 inches)

Interpretive groups

Farmland classification: Prime farmland if irrigated and the product of

I (soil erodibility) x C (climate factor) does not exceed 60

Land capability classification (irrigated): 3e

Hydrologic Soil Group: B

Ecological site: Sandy Plains (R067BY024CO)

Typical profile

0 to 12 inches: Sandy loam

12 to 60 inches: Fine sandy loam

Minor Components

Haverson

Percent of map unit: 8 percent

Kim

Percent of map unit: 7 percent

Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 12, Jan 3, 2014