

Weld County, Colorado, Southern Part

27—Heldt silty clay, 1 to 3 percent slopes

Map Unit Setting

National map unit symbol: 3624

Elevation: 4,950 to 5,050 feet

Mean annual precipitation: 11 to 17 inches

Mean annual air temperature: 46 to 59 degrees F

Frost-free period: 110 to 150 days

Farmland classification: Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60

Map Unit Composition

Heldt and similar soils: 85 percent

Minor components: 15 percent

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

Description of Heldt

Setting

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Sediment alluvium derived from shale

Typical profile

H1 - 0 to 7 inches: silty clay

H2 - 7 to 60 inches: silty clay

Properties and qualities

Slope: 1 to 3 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 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: 10 percent

Gypsum, maximum in profile: 1 percent

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

Sodium adsorption ratio, maximum in profile: 10.0

Available water storage in profile: High (about 9.6 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 4c

Hydrologic Soil Group: C

Ecological site: Clayey plains (R067BY042CO)

Minor Components

Nunn

Percent of map unit: 10 percent

Haverson

Percent of map unit: 5 percent

Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 13, Sep 23, 2014