

Cheyenne County, Colorado

54—Wiley complex, 0 to 3 percent slopes, eroded

Map Unit Setting

Elevation: 4,500 to 6,500 feet

Mean annual precipitation: 12 to 15 inches

Mean annual air temperature: 48 to 54 degrees F

Frost-free period: 140 to 170 days

Map Unit Composition

Wiley, eroded, and similar soils: 80 percent

Minor components: 20 percent

Description of Wiley, Eroded

Setting

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous loess

Typical profile

A - 0 to 3 inches: silt loam

Bt - 3 to 23 inches: silty clay loam, silt loam, clay loam

Bt - 3 to 23 inches: silt loam, silty clay loam, loam

Bt - 3 to 23 inches:

Ck - 23 to 60 inches:

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Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

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 (0.0 to 2.0 mmhos/cm)

Available water storage in profile: Very high (about 33.5 inches)

Interpretive groups

Farmland classification: Prime farmland if irrigated

Land capability classification (irrigated): 2e

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: B

Ecological site: Loamy Plains (R067BY002CO)

Minor Components

Colby

Percent of map unit: 10 percent

Baca

Percent of map unit: 6 percent

Stoneham

Percent of map unit: 4 percent

Data Source Information

Soil Survey Area: Cheyenne County, Colorado
Survey Area Data: Version 13, Dec 23, 2013