

Cheyenne County, Colorado

55—Wiley complex, 3 to 5 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: Hills
Landform position (three-dimensional): Crest, side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous loess

Properties and qualities

Slope: 3 to 5 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 (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Very high (about 33.5 inches)

Interpretive groups

Farmland classification: Prime farmland if irrigated
Land capability classification (irrigated): 3e
Land capability (nonirrigated): 4e
Hydrologic Soil Group: B
Ecological site: Loamy Plains (R067BY002CO)

Typical profile

0 to 3 inches: Silt loam
3 to 23 inches: Silty clay loam, silt loam, clay loam
23 to 60 inches: Silt loam, silty clay loam, loam

Minor Components

Ulysses

Percent of map unit: 6 percent

Colby

Percent of map unit: 6 percent

Stoneham

Percent of map unit: 4 percent

Keith

Percent of map unit: 4 percent

Data Source Information

Soil Survey Area: Cheyenne County, Colorado
Survey Area Data: Version 12, Sep 28, 2012