

Cheyenne County, Colorado

42—Stoneham loam, 3 to 6 percent slopes

Map Unit Setting

National map unit symbol: 354z

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: Prime farmland if irrigated

Map Unit Composition

Stoneham and similar soils: 80 percent

Minor components: 20 percent

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

Description of Stoneham

Setting

Landform: Hills

Landform position (three-dimensional): Side slope, crest

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Mixed, calcareous alluvium

Typical profile

Ap - 0 to 3 inches: loam

Bt - 3 to 7 inches: clay loam, sandy clay loam, loam

Bt - 3 to 7 inches: loam, clay loam, sandy clay loam

Bt - 3 to 7 inches:

C - 7 to 60 inches:

C - 7 to 60 inches:

C - 7 to 60 inches:

Properties and qualities

Slope: 3 to 6 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Medium

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: Very high (about 27.7 inches)

Interpretive groups

Land capability classification (irrigated): 4e

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: B

Ecological site: Loamy Plains (R067BY002CO)

Minor Components

Wiley

Percent of map unit: 10 percent

Fort collins

Percent of map unit: 5 percent

Satanta

Percent of map unit: 5 percent

Data Source Information

Soil Survey Area: Cheyenne County, Colorado

Survey Area Data: Version 16, Oct 3, 2014