

Cheyenne County, Colorado

40—Schamber-Stoneham complex, 6 to 35 percent slopes

Map Unit Setting

National map unit symbol: 354x

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: Not prime farmland

Map Unit Composition

Schamber and similar soils: 40 percent

Stoneham and similar soils: 40 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

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: 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: 6 to 25 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): 6e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: B
Ecological site: Loamy Slopes (R067BY008CO)

Description of Schamber

Setting

Landform: Hills
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium

Typical profile

A - 0 to 10 inches: very gravelly sandy loam
C1 - 10 to 18 inches: very gravelly loamy coarse sand, very gravelly loamy sand
C1 - 10 to 18 inches: very gravelly sand, very gravelly loamy coarse sand
C2 - 18 to 60 inches:
C2 - 18 to 60 inches:

Properties and qualities

Slope: 6 to 35 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): High (2.00 to 6.00 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: Low (about 4.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: A
Ecological site: Gravel Breaks (R067BY063CO)

Minor Components

Vona

Percent of map unit: 10 percent

Eckley

Percent of map unit: 5 percent

Yoder

Percent of map unit: 5 percent

Data Source Information

Soil Survey Area: Cheyenne County, Colorado

Survey Area Data: Version 16, Oct 3, 2014