

Map Unit Description

Cheyenne County, Colorado

13 Fort Collins loam, 0 to 3 percent slopes

Setting

Elevation: 4500 to 6500 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 130 to 170 days

Composition

Fort collins and similar soils: 85 percent
Minor components: 15 percent

Description of Fort collins

Setting

Landform: Terraces, alluvial fans
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium and/or calcareous loess

Properties and Qualities

Slope: 0 to 3 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.57 to 2.00 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 15 percent
Gypsum maximum: 0 percent
Available water capacity: High (about 10.1 inches)

Interpretive Groups

Land capability classification (irrigated): 2e
Land capability (non irrigated): 4c
Ecological site: Loamy Plains (R067BY002CO)

Typical Profile

0 to 5 inches: loam
5 to 18 inches: loam, clay loam
18 to 28 inches: loam, clay loam
28 to 60 inches: loam, silt loam, fine sandy loam

Minor Components

Manzanola

Percent of map unit: 5 percent

Wiley

Percent of map unit: 5 percent

Stoneham

Percent of map unit: 5 percent

Map Unit Description

Cheyenne County, Colorado

44 Stoneham-Razor complex, 2 to 6 percent slopes

Setting

Elevation: 4000 to 6500 feet
Mean annual precipitation: 12 to 16 inches
Mean annual air temperature: 46 to 54 degrees F
Frost-free period: 100 to 170 days

Composition

Stoneham and similar soils: 45 percent
Razor and similar soils: 30 percent
Minor components: 25 percent

Description of Stoneham

Setting

Landform: Hills
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Mixed alluvium

Properties and Qualities

Slope: 2 to 6 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.60 to 2.00 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 15 percent
Gypsum maximum: 0 percent
Available water capacity: High (about 9.6 inches)

Interpretive Groups

Land capability classification (irrigated): 4e
Land capability (non irrigated): 4e
Ecological site: Loamy Plains (R067BY002CO)

Typical Profile

0 to 3 inches: loam
3 to 7 inches: clay loam, sandy clay loam, loam
7 to 60 inches: loam, clay loam, sandy clay loam

Description of Razor

Setting

Landform: Hills
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Residuum

Properties and Qualities

Slope: 2 to 6 percent
Depth to restrictive feature: 20 to 40 inches to Paralithic bedrock
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low or moderately high (0.06 to 0.20 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 15 percent
Gypsum maximum: 5 percent
Salinity maximum: Slightly saline or moderately saline (8.0 to 16.0 mmhos/cm)
Sodium adsorption ratio maximum: 15.0
Available water capacity: Low (about 5.1 inches)

Interpretive Groups

Land capability classification (irrigated): 3e
Land capability (non irrigated): 3e
Ecological site: Clayey Plains (R067BY042CO)

Map Unit Description

Cheyenne County, Colorado

Typical Profile

0 to 2 inches: clay loam

2 to 11 inches: silty clay, clay, clay loam

11 to 30 inches: silty clay, silty clay loam, clay

30 to 34 inches: weathered bedrock

Minor Components

Kim

Percent of map unit: 10 percent

Midway

Percent of map unit: 5 percent

Vona

Percent of map unit: 5 percent

Fort collins

Percent of map unit: 5 percent