

Map Unit Description

Cheyenne County, Colorado

14 Fort Collins-Vona complex, 0 to 3 percent slopes

Setting

Elevation: 4000 to 5900 feet
Mean annual precipitation: 10 to 15 inches
Mean annual air temperature: 46 to 55 degrees F
Frost-free period: 130 to 170 days

Composition

Fort collins and similar soils: 50 percent
Vona and similar soils: 40 percent
Minor components: 10 percent

Description of Fort collins

Setting

Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium and/or 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 (0.60 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 10.2 inches)

Interpretive Groups

Land capability classification (irrigated): 2e
Land capability (non irrigated): 4e
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

Description of Vona

Setting

Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Eolian deposits

Properties and Qualities

Slope: 0 to 3 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 6.00 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 15 percent
Gypsum maximum: 0 percent
Available water capacity: Moderate (about 6.4 inches)

Interpretive Groups

Land capability classification (irrigated): 4e
Land capability (non irrigated): 6e
Ecological site: Sandy Plains (R067BY024CO)

Typical Profile

0 to 4 inches: loamy sand

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4 to 20 inches: fine sandy loam, sandy loam

20 to 60 inches: sandy loam, loamy sand, loamy fine sand

Minor Components

Olney

Percent of map unit: 5 percent

Manzanola

Percent of map unit: 5 percent