

Map Unit Description

Cheyenne County, Colorado

39 Satanta-Colby complex, 3 to 5 percent slopes

Setting

Elevation: 3000 to 6500 feet
Mean annual precipitation: 12 to 25 inches
Mean annual air temperature: 45 to 57 degrees F
Frost-free period: 130 to 200 days

Composition

Satanta and similar soils: 50 percent
Colby and similar soils: 20 percent
Minor components: 30 percent

Description of Satanta

Setting

Landform: Paleoterraces
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium

Properties and Qualities

Slope: 3 to 5 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: 10 percent
Gypsum maximum: 0 percent
Available water capacity: High (about 9.8 inches)

Interpretive Groups

Land capability classification (irrigated): 2e
Land capability (non irrigated): 3e
Ecological site: Loamy Plains (R067BY002CO)

Typical Profile

0 to 8 inches: loam
8 to 16 inches: clay loam
16 to 60 inches: loam

Description of Colby

Setting

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

Properties and Qualities

Slope: 3 to 5 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 10.8 inches)

Interpretive Groups

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

Typical Profile

0 to 3 inches: silt loam
3 to 60 inches: silt loam

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Minor Components

Sampson

Percent of map unit: 15 percent

Manter

Percent of map unit: 15 percent