

# Map Unit Description

Cheyenne County, Colorado

## 38 Satanta loam, 0 to 3 percent slopes

### Setting

Elevation: 3000 to 6500 feet  
Mean annual precipitation: 15 to 25 inches  
Mean annual air temperature: 45 to 57 degrees F  
Frost-free period: 130 to 200 days

### Composition

Satanta and similar soils: 90 percent  
Minor components: 10 percent

### Description of Satanta

#### Setting

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

#### 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: 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

### Minor Components

#### Kim

Percent of map unit: 5 percent

#### Ascalon

Percent of map unit: 5 percent