

# Map Unit Description

Cheyenne County, Colorado

## 54 Wiley complex, 0 to 3 percent slopes, eroded

### Setting

Elevation: 4500 to 6500 feet  
Mean annual precipitation: 12 to 15 inches  
Mean annual air temperature: 48 to 54 degrees F  
Frost-free period: 140 to 170 days

### Composition

Wiley, eroded, and similar soils: 80 percent  
Minor components: 20 percent

### Description of Wiley, eroded

#### Setting

Landform: Plains  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: 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 (0.60 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 11.5 inches)

#### Interpretive Groups

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

#### Typical Profile

0 to 3 inches: silt loam  
3 to 23 inches: silty clay loam, silt loam, clay loam  
23 to 60 inches: silt loam, silty clay loam, loam

### Minor Components

#### Colby

Percent of map unit: 10 percent

#### Baca

Percent of map unit: 6 percent

#### Stoneham

Percent of map unit: 4 percent