

# Map Unit Description

Weld County, Colorado, Southern Part

## 83 Wiley-Colby complex, 3 to 5 percent slopes

### Setting

Elevation: 4850 to 5000 feet  
Mean annual precipitation: 12 to 16 inches  
Mean annual air temperature: 48 to 54 degrees F  
Frost-free period: 135 to 170 days

### Composition

Wiley and similar soils: 55 percent  
Colby and similar soils: 30 percent  
Minor components: 15 percent

### Description of Wiley

#### Setting

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

#### 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: 15 percent  
Gypsum maximum: 0 percent  
Available water capacity: High (about 11.7 inches)

#### Interpretive Groups

Land capability classification (irrigated): 3e  
Land capability (non irrigated): 4e  
Ecological site: Loamy Plains (R067BY002CO)

#### Typical Profile

0 to 11 inches: silt loam  
11 to 60 inches: silty clay loam  
60 to 64 inches: silty clay loam

### Description of Colby

#### Setting

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

#### 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 10.6 inches)

#### Interpretive Groups

Land capability classification (irrigated): 3e  
Land capability (non irrigated): 4e  
Ecological site: Loamy Plains (R067BY002CO)

#### Typical Profile

0 to 7 inches: loam  
7 to 60 inches: silt loam

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### Minor Components

#### Heldt

Percent of map unit: 9 percent

#### Weld

Percent of map unit: 6 percent