

## Map Unit Description

Cheyenne County, Colorado

### 20 Keith-Ulysses silt loams, 1 to 4 percent slopes

#### Setting

Elevation: 2600 to 6000 feet  
Mean annual precipitation: 13 to 22 inches  
Mean annual air temperature: 48 to 57 degrees F  
Frost-free period: 140 to 185 days

#### Composition

Keith and similar soils: 45 percent  
Ulysses and similar soils: 30 percent  
Minor components: 25 percent

#### Description of Keith

##### Setting

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

##### Properties and Qualities

Slope: 1 to 2 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 5 percent  
Gypsum maximum: 0 percent  
Available water capacity: High (about 11.0 inches)

##### Interpretive Groups

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

##### Typical Profile

0 to 4 inches: silt loam  
4 to 25 inches: silty clay loam  
25 to 60 inches: silt loam

#### Description of Ulysses

##### Setting

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

##### Properties and Qualities

Slope: 2 to 4 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 10.8 inches)

##### Interpretive Groups

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

##### Typical Profile

0 to 8 inches: silt loam  
8 to 60 inches: silt loam

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### Minor Components

#### Colby

Percent of map unit: 10 percent

#### Goshen

Percent of map unit: 5 percent

#### Richfield

Percent of map unit: 5 percent

#### Wiley

Percent of map unit: 5 percent