

# Map Unit Description

Weld County, Colorado, Northern Part

30 Keith loam, 0 to 6 percent slopes

## Setting

Elevation: 5000 to 6000 feet  
Mean annual precipitation: 15 to 17 inches  
Mean annual air temperature: 46 to 48 degrees F  
Frost-free period: 120 to 150 days

## Composition

Keith and similar soils: 83 percent  
Minor components: 17 percent

## Description of Keith

### Setting

Landform: Stream terraces, swales, plains  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Calcareous loamy alluvium

### Properties and Qualities

Slope: 0 to 6 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.57 to 5.95 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 10 percent  
Gypsum maximum: 0 percent  
Available water capacity: High (about 10.7 inches)

### Interpretive Groups

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

### Typical Profile

0 to 4 inches: loam  
4 to 20 inches: silt loam  
20 to 60 inches: silt loam

## Minor Components

### Weld

Percent of map unit: 8 percent

### Wages

Percent of map unit: 4 percent

### Kim

Percent of map unit: 3 percent

### Mitchell

Percent of map unit: 2 percent

# Map Unit Description

Weld County, Colorado, Northern Part

## 70 Ustic Torriorthents-Rock outcrop complex, 9 to 40 percent slopes

### Setting

Elevation: 3500 to 6500 feet  
Mean annual precipitation: 12 to 15 inches  
Mean annual air temperature: 46 to 55 degrees F  
Frost-free period: 120 to 150 days

### Composition

Ustic torriorthents and similar soils: 60 percent  
Rock outcrop: 20 percent  
Minor components: 20 percent

### Description of Ustic torriorthents

#### Setting

Landform: Escarpments, fans, alluvial fans  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Sandy loam gravelly alluvium and/or silt loam colluvium

#### Properties and Qualities

Slope: 9 to 40 percent  
Depth to restrictive feature: 10 to 30 inches to Paralithic bedrock  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately low or high (0.06 to 2.00 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 5 percent  
Gypsum maximum: 0 percent  
Available water capacity: Very low (about 1.5 inches)

#### Interpretive Groups

Land capability classification (irrigated): 7s  
Land capability (non irrigated): 7s  
Ecological site: Sandstone Breaks (R067BY056CO)

#### Typical Profile

0 to 4 inches: variable  
4 to 13 inches: gravelly loam  
13 to 60 inches: bedrock

### Description of Rock outcrop

#### Setting

Landform: Escarpments  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Sandstone

#### Properties and Qualities

Slope: 9 to 40 percent  
Depth to restrictive feature: 0 to 0 inches to Lithic bedrock  
Capacity of the most limiting layer to transmit water (Ksat): Very low or moderately low (0.00 to 0.06 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Available water capacity: Very low (about 0.0 inches)

#### Interpretive Groups

Land capability classification (irrigated): 8s  
Land capability (non irrigated): 8s

#### Typical Profile

0 to 60 inches: bedrock

### Minor Components

# Map Unit Description

Weld County, Colorado, Northern Part

Cascajo

Percent of map unit: 20 percent