

# 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

# Rangeland Productivity and Plant Composition

Weld County, Colorado, Northern Part

Map symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/Ac	Lb/Ac	Lb/Ac		Pct
30: Keith	Loamy Plains	1,500	1,000	700	Western wheatgrass	20

# Map Unit Description

Weld County, Colorado, Northern Part

27 Epping silt loam, 0 to 9 percent slopes

## Setting

Elevation: 3600 to 5500 feet  
Mean annual precipitation: 12 to 17 inches  
Mean annual air temperature: 45 to 52 degrees F  
Frost-free period: 120 to 150 days

## Composition

Epping and similar soils: 85 percent  
Minor components: 15 percent

## Description of Epping

### Setting

Landform: Plains  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Calcareous loamy residuum weathered from siltstone

### Properties and Qualities

Slope: 0 to 9 percent  
Depth to restrictive feature: 10 to 20 inches to Paralithic bedrock  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately low or moderately high (0.06 to 0.20 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 15 percent  
Gypsum maximum: 0 percent  
Available water capacity: Very low (about 2.9 inches)

### Interpretive Groups

Land capability (non irrigated): 6s  
Ecological site: Shallow Siltstone (R067BY039CO)

### Typical Profile

0 to 3 inches: silt loam  
3 to 17 inches: silt loam  
17 to 20 inches: weathered bedrock

## Minor Components

### Keota

Percent of map unit: 5 percent

### Thedalund

Percent of map unit: 4 percent

### Mitchell

Percent of map unit: 3 percent

### Kim

Percent of map unit: 3 percent

# Rangeland Productivity and Plant Composition

Weld County, Colorado, Northern Part

Map symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/Ac	Lb/Ac	Lb/Ac		Pct
27:						
Epping	Shallow Siltstone	900	800	700	Needleandthread	15
					Threadleaf sedge	15
					Little bluestem	10
					Sideoats grama	10
					Other perennial forbs	5
					Other perennial grasses	5
					Other shrubs	5
					Prairie sandreed	5
					Western wheatgrass	5