

# Map Unit Description

Weld County, Colorado, Northern Part

## 31 Kim-Mitchell complex, 0 to 6 percent slopes

### Setting

Elevation: 3500 to 6500 feet  
Mean annual precipitation: 11 to 17 inches  
Mean annual air temperature: 46 to 54 degrees F  
Frost-free period: 120 to 160 days

### Composition

Kim and similar soils: 45 percent  
Mitchell and similar soils: 40 percent  
Minor components: 15 percent

### Description of Kim

#### Setting

Landform: Alluvial fans, 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 (0.20 to 0.60 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 15 percent  
Gypsum maximum: 0 percent  
Available water capacity: High (about 9.7 inches)

#### Interpretive Groups

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

#### Typical Profile

0 to 3 inches: loam  
3 to 7 inches: clay loam  
7 to 60 inches: loam

### Description of Mitchell

#### Setting

Landform: Alluvial fans, 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: 15 percent  
Gypsum maximum: 0 percent  
Available water capacity: High (about 10.8 inches)

#### Interpretive Groups

Land capability classification (irrigated): 4e  
Land capability (non irrigated): 4e  
Ecological site: Siltstone Plains (R067BY009CO)

#### Typical Profile

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

## Map Unit Description

Weld County, Colorado, Northern Part

### Minor Components

Haverson

Percent of map unit: 5 percent

Thedalund

Percent of map unit: 5 percent

Keota

Percent of map unit: 5 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
31:						
Kim	Loamy Plains	1,500	1,000	500	Western wheatgrass	25
Mitchell	Siltstone Plains	1,500	900	400	Western wheatgrass	25
					Fourwing saltbush	15

# Map Unit Description

Weld County, Colorado, Northern Part

63 Tassel loamy fine sand, 5 to 20 percent slopes

## Setting

Elevation: 3500 to 6200 feet  
Mean annual precipitation: 12 to 19 inches  
Mean annual air temperature: 46 to 52 degrees F  
Frost-free period: 110 to 165 days

## Composition

Tassel and similar soils: 90 percent  
Minor components: 10 percent

## Description of Tassel

### Setting

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

### Properties and Qualities

Slope: 5 to 20 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: 10 percent  
Gypsum maximum: 0 percent  
Available water capacity: Very low (about 2.1 inches)

### Interpretive Groups

Land capability (non irrigated): 6e  
Ecological site: Sandstone Breaks (R067BY056CO)

### Typical Profile

0 to 7 inches: loamy fine sand  
7 to 19 inches: fine sandy loam  
19 to 23 inches: weathered bedrock

## Minor Components

### Shingle

Percent of map unit: 5 percent

### Rock outcrop

Percent of map unit: 5 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
63:						
Tassel	Sandstone Breaks	1,500	1,200	950	Little bluestem	15
					Sideoats grama	15
					Threadleaf sedge	15
					Needleandthread	10
					Other perennial grasses	5

# Map Unit Description

Weld County, Colorado, Northern Part

29 Haverson loam, 0 to 3 percent slopes

## Setting

Elevation: 3500 to 6000 feet  
Mean annual precipitation: 12 to 17 inches  
Mean annual air temperature: 46 to 54 degrees F  
Frost-free period: 125 to 180 days

## Composition

Haverson and similar soils: 90 percent  
Minor components: 10 percent

## Description of Haverson

### Setting

Landform: Stream terraces, flood plains  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Stratified, calcareous loamy alluvium

### 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 (0.57 to 2.00 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 15 percent  
Gypsum maximum: 1 percent  
Available water capacity: High (about 9.6 inches)

### Interpretive Groups

Land capability (non irrigated): 4c  
Ecological site: Overflow (R067BY036CO)  
Other vegetative classification: OVERFLOW (067BY036CO)

### Typical Profile

0 to 12 inches: loam  
12 to 60 inches: stratified sandy loam to loam

## Minor Components

### Nunn

Percent of map unit: 6 percent

### Fluvaquentic haplustolls

Percent of map unit: 4 percent  
Landform: Terraces

# 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
29:						
Haverson	Overflow	2,800	2,000	1,200	Western wheatgrass	35
					Green needlegrass	15
					Switchgrass	15