

Map Unit Description

Weld County, Colorado, Northern Part

32 Kim-Mitchell complex, 6 to 9 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: 35 percent
Minor components: 20 percent

Description of Kim

Setting

Landform: Fans, alluvial fans, plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous loamy alluvium and/or colluvium

Properties and Qualities

Slope: 6 to 9 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): 6e
Land capability (non irrigated): 6e
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, fans, plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous loamy alluvium

Properties and Qualities

Slope: 6 to 9 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): 6e
Land capability (non irrigated): 6e
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

Keota

Percent of map unit: 7 percent

Thedalund

Percent of map unit: 7 percent

Haverson

Percent of map unit: 6 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
32:						
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

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

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