

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

40 Nunn loam, 0 to 6 percent slopes

Setting

Elevation: 4500 to 6700 feet
Mean annual precipitation: 12 to 18 inches
Mean annual air temperature: 46 to 54 degrees F
Frost-free period: 115 to 180 days

Composition

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

Description of Nunn

Setting

Landform: Stream terraces, 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 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: Moderate (about 9.0 inches)

Interpretive Groups

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

Typical Profile

0 to 7 inches: loam
7 to 23 inches: clay loam
23 to 60 inches: clay loam
60 to 64 inches: sandy clay loam

Minor Components

Manzanola

Percent of map unit: 8 percent

Avar

Percent of map unit: 7 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
40:						
Nunn	Loamy Plains	1,800	1,400	1,000	Western wheatgrass	30
					Green needlegrass	10
					Fourwing saltbush	5
					Other perennial grasses	4
					Other perennial forbs	3
					Other shrubs	3
					Indian ricegrass	1
					Rabbitbrush	1
					Sand dropseed	1