

Map Unit Description

Weld County, Colorado, Northern Part

33 Kim-Shingle complex, 6 to 30 percent slopes

Setting

Elevation: 3500 to 6500 feet
Mean annual precipitation: 10 to 17 inches
Mean annual air temperature: 46 to 54 degrees F
Frost-free period: 110 to 150 days

Composition

Kim and similar soils: 60 percent
Shingle and similar soils: 20 percent
Minor components: 20 percent

Description of Kim

Setting

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

Properties and Qualities

Slope: 6 to 20 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 (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 Shingle

Setting

Landform: Alluvial fans, breaks, fans, plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous loamy residuum weathered from shale

Properties and Qualities

Slope: 6 to 30 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 2.1 inches)

Interpretive Groups

Land capability (non irrigated): 6s
Ecological site: Shaly Plains (R067BY045CO)

Typical Profile

0 to 4 inches: clay loam
4 to 11 inches: clay loam
11 to 15 inches: unweathered bedrock

Map Unit Description

Weld County, Colorado, Northern Part

Minor Components

Cascajo

Percent of map unit: 10 percent

Keota

Percent of map unit: 10 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
33:						
Kim	Loamy Plains	1,500	1,000	500	Western wheatgrass	25
Shingle	Shaly Plains	900	700	500	Western wheatgrass	15
					Needleandthread	10
					Sideoats grama	10
					Fourwing saltbush	5
					Winterfat	5

Map Unit Description

Weld County, Colorado, Northern Part

36 Manzanola clay loam, 0 to 3 percent slopes

Setting

Elevation: 4400 to 5600 feet
Mean annual precipitation: 11 to 15 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 140 to 180 days

Composition

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

Description of Manzanola

Setting

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

Properties and Qualities

Slope: 0 to 3 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: 5 percent
Gypsum maximum: 3 percent
Sodium adsorption ratio maximum: 15.0
Available water capacity: High (about 9.6 inches)

Interpretive Groups

Land capability (non irrigated): 4e
Ecological site: Clayey Plains (R067BY042CO)

Typical Profile

0 to 3 inches: clay loam
3 to 25 inches: clay
25 to 48 inches: clay
48 to 60 inches: clay loam

Minor Components

Avar

Percent of map unit: 15 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	
36:						
Manzanola	Clayey Plains	1,600	1,000	500	Western wheatgrass	30
					Fourwing saltbush	10
					Green needlegrass	10
					Needleandthread	5

Map Unit Description

Weld County, Colorado, Northern Part

60 Shingle clay loam, 0 to 9 percent slopes

Setting

Elevation: 3600 to 5500 feet
Mean annual precipitation: 10 to 13 inches
Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 110 to 140 days

Composition

Shingle and similar soils: 80 percent
Minor components: 20 percent

Description of Shingle

Setting

Landform: Breaks, ridges, plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous, clayey loamy residuum weathered from shale

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 2.1 inches)

Interpretive Groups

Land capability (non irrigated): 6s
Ecological site: Shaly Plains (R067BY045CO)

Typical Profile

0 to 4 inches: clay loam
4 to 11 inches: clay loam
11 to 15 inches: unweathered bedrock

Minor Components

Renohill

Percent of map unit: 10 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	
60: Shingle	Shaly Plains	900	700	500	Western wheatgrass	15
					Needleandthread	10
					Sideoats grama	10
					Fourwing saltbush	5
					Winterfat	5