

Map Unit Description

Weld County, Colorado, Northern Part

47 Otero sandy loam, 3 to 9 percent slopes

Setting

Elevation: 4500 to 5500 feet
Mean annual precipitation: 12 to 15 inches
Mean annual air temperature: 48 to 52 degrees F
Frost-free period: 130 to 180 days

Composition

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

Description of Otero

Setting

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

Properties and Qualities

Slope: 3 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: 10 percent
Gypsum maximum: 0 percent
Available water capacity: Moderate (about 7.7 inches)

Interpretive Groups

Land capability (non irrigated): 6e
Ecological site: Sandy Plains (R067BY024CO)

Typical Profile

0 to 5 inches: sandy loam
5 to 60 inches: fine sandy loam, sandy loam

Minor Components

Stoneham

Percent of map unit: 7 percent

Bushman

Percent of map unit: 3 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
47:						
Otero	Sandy Plains	2,000	1,500	700	Prairie sandreed	30
					Needleandthread	25

Map Unit Description

Weld County, Colorado, Northern Part

46 Otero sandy loam, 0 to 3 percent slopes

Setting

Elevation: 4500 to 5500 feet
Mean annual precipitation: 12 to 15 inches
Mean annual air temperature: 48 to 52 degrees F
Frost-free period: 130 to 180 days

Composition

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

Description of Otero

Setting

Landform: Alluvial fans, plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: 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 5.95 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 10 percent
Gypsum maximum: 0 percent
Available water capacity: Moderate (about 7.7 inches)

Interpretive Groups

Land capability (non irrigated): 4e
Ecological site: Sandy Plains (R067BY024CO)

Typical Profile

0 to 5 inches: sandy loam
5 to 60 inches: fine sandy loam, sandy loam

Minor Components

Stoneham

Percent of map unit: 5 percent

Bushman

Percent of map unit: 4 percent

Kim

Percent of map unit: 3 percent

Mitchell

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
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		Lb/Ac	Lb/Ac	Lb/Ac		Pct
46:						
Otero	Sandy Plains	2,000	1,500	700	Prairie sandreed	30
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