

Map Unit Description

Weld County, Colorado, Northern Part

45 Olney fine sandy loam, 6 to 9 percent slopes

Setting

Elevation: 3500 to 5800 feet
Mean annual precipitation: 11 to 15 inches
Mean annual air temperature: 46 to 54 degrees F
Frost-free period: 125 to 175 days

Composition

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

Description of Olney

Setting

Landform: 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 2.00 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 15 percent
Gypsum maximum: 0 percent
Available water capacity: Moderate (about 8.1 inches)

Interpretive Groups

Land capability (non irrigated): 6e
Ecological site: Loamy Plains (R067BY002CO)

Typical Profile

0 to 6 inches: fine sandy loam
6 to 18 inches: sandy clay loam
18 to 60 inches: sandy loam
60 to 64 inches: sandy loam

Minor Components

Stoneham

Percent of map unit: 5 percent

Vona

Percent of map unit: 5 percent

Ascalon

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
45:						
Olney	Loamy Plains	1,800	1,500	1,000	Needlegrass	10
					Prairie sandreed	10
					Sand dropseed	10
					Little bluestem	5
					Sideoats grama	5

Map Unit Description

Weld County, Colorado, Northern Part

57 Renohill-Shingle complex, 3 to 9 percent slopes

Setting

Elevation: 3600 to 6200 feet
Mean annual precipitation: 10 to 16 inches
Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 100 to 160 days

Composition

Renohill and similar soils: 50 percent
Shingle and similar soils: 35 percent
Minor components: 15 percent

Description of Renohill

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: 3 to 9 percent
Depth to restrictive feature: 20 to 40 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: Low (about 5.0 inches)

Interpretive Groups

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

Typical Profile

0 to 4 inches: fine sandy loam
4 to 13 inches: clay
13 to 29 inches: clay loam
29 to 33 inches: unweathered bedrock

Description of Shingle

Setting

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

Properties and Qualities

Slope: 3 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 classification (irrigated): 6s
Land capability (non irrigated): 6s
Ecological site: Shaly Plains (R067BY045CO)

Typical Profile

Map Unit Description

Weld County, Colorado, Northern Part

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

Minor Components

Midway

Percent of map unit: 8 percent

Tassel

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
57:						
Renohill	Loamy Plains	1,400	1,100	800	Western wheatgrass	10
					Other perennial grasses	5
Shingle	Shaly Plains	900	700	500	Western wheatgrass	15
					Needleandthread	10
					Sideoats grama	10
					Fourwing saltbush	5
					Winterfat	5