

# Map Unit Description

Weld County, Colorado, Northern Part

## 4 Ascalon fine sandy loam, 0 to 6 percent slopes

### Setting

Elevation: 4500 to 6500 feet  
Mean annual precipitation: 13 to 17 inches  
Mean annual air temperature: 46 to 57 degrees F  
Frost-free period: 130 to 160 days

### Composition

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

### Description of Ascalon

#### Setting

Landform: 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 (0.60 to 2.00 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 10 percent  
Gypsum maximum: 0 percent  
Available water capacity: Moderate (about 6.9 inches)

#### Interpretive Groups

Land capability classification (irrigated): 3e  
Land capability (non irrigated): 3e  
Ecological site: Loamy Plains (R067BY002CO)

#### Typical Profile

0 to 8 inches: fine sandy loam  
8 to 22 inches: sandy clay loam  
22 to 60 inches: sandy loam

### Minor Components

#### Olney

Percent of map unit: 8 percent

#### Otero

Percent of map unit: 7 percent

# 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
4:						
Ascalon	Loamy Plains	1,700	1,200	750	Western wheatgrass	20
					Needleandthread	5
					Sideoats grama	3

# Rangeland Productivity and Plant Composition

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		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