

# 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

# Map Unit Description

Weld County, Colorado, Northern Part

## 66 Thedalund-Keota loams, 0 to 3 percent slopes

### Setting

Elevation: 3500 to 6500 feet  
Mean annual precipitation: 13 to 17 inches  
Mean annual air temperature: 46 to 48 degrees F  
Frost-free period: 130 to 160 days

### Composition

Thedalund and similar soils: 45 percent  
Keota and similar soils: 30 percent  
Minor components: 25 percent

### Description of Thedalund

#### Setting

Landform: Plains, ridges, alluvial fans  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Calcareous loamy residuum weathered from sandstone and shale and/or residuum weathered from siltstone

#### Properties and Qualities

Slope: 0 to 3 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 high (0.06 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: Low (about 4.3 inches)

#### Interpretive Groups

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

#### Typical Profile

0 to 3 inches: loam  
3 to 25 inches: loam  
25 to 29 inches: weathered bedrock

### Description of Keota

#### Setting

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

#### Properties and Qualities

Slope: 0 to 3 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: 10 percent  
Gypsum maximum: 0 percent  
Available water capacity: Low (about 5.3 inches)

#### Interpretive Groups

Land capability classification (irrigated): 4s  
Land capability (non irrigated): 4e  
Ecological site: Siltstone Plains (R067BY009CO)

#### Typical Profile

## Map Unit Description

Weld County, Colorado, Northern Part

0 to 4 inches: loam  
4 to 35 inches: silt loam  
35 to 39 inches: unweathered bedrock

### Minor Components

Epping

Percent of map unit: 10 percent

Shingle

Percent of map unit: 5 percent

Mitchell

Percent of map unit: 5 percent

Kim

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
66:						
Thedalund	Loamy Plains	1,600	1,100	800	Sideoats grama	10
					Western wheatgrass	10
					Bottlebrush squirreltail	5
					Fendler threeawn	5
					Needleandthread	5
					Fourwing saltbush	3
					Sand dropseed	2
Keota	Siltstone Plains	1,800	1,200	300	Western wheatgrass	12
					Fourwing saltbush	5
					Green needlegrass	4
					Winterfat	3
					Sideoats grama	1