

# Map Unit Description

Weld County, Colorado, Northern Part

54      Platner loam, 0 to 3 percent slopes

## Setting

Elevation: 4500 to 5900 feet  
Mean annual precipitation: 17 to 19 inches  
Mean annual air temperature: 46 to 52 degrees F  
Frost-free period: 140 to 165 days

## Composition

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

## Description of Platner

### Setting

Landform: Stream terraces, 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 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: Moderate (about 8.9 inches)

### Interpretive Groups

Land capability classification (irrigated): 2e  
Land capability (non irrigated): 3e  
Ecological site: Loamy Plains (R067BY002CO)

### Typical Profile

0 to 4 inches: loam  
4 to 24 inches: clay  
24 to 60 inches: sandy loam

## Minor Components

### Ascalon

Percent of map unit: 8 percent

### Manzanola

Percent of map unit: 6 percent

### Nunn

Percent of map unit: 6 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
54:						
Platner	Loamy Plains	1,700	1,200	800	Western wheatgrass	30
					Green needlegrass	15
					Needleandthread	5