

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