

Map Unit Description

Weld County, Colorado, Northern Part

49 Paoli fine sandy loam, 0 to 6 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 150 days

Composition

Paoli and similar soils: 90 percent
Minor components: 10 percent

Description of Paoli

Setting

Landform: Alluvial fans
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): High (2.00 to 6.00 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 15 percent
Gypsum maximum: 0 percent
Available water capacity: High (about 9.1 inches)

Interpretive Groups

Land capability classification (irrigated): 3e
Land capability (non irrigated): 3e
Ecological site: Sandy Plains (R067BY024CO)

Typical Profile

0 to 15 inches: fine sandy loam
15 to 45 inches: sandy loam
45 to 60 inches: sandy loam

Minor Components

Haverson

Percent of map unit: 8 percent

Fluvaquentic haplustolls

Percent of map unit: 2 percent
Landform: Terraces

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 |
| 49: Paoli | Sandy Plains | 3,000 | 2,000 | 1,500 | Prairie sandreed Western wheatgrass Fourwing saltbush Green needlegrass Sideoats grama Switchgrass Winterfat | 15 10 5 5 5 5 5 |

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

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 Needleandthread Sideoats grama | 20 5 3 |