

Map Unit Description

Weld County, Colorado, Northern Part

41 Nunn clay 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: High (about 9.2 inches)

Interpretive Groups

Land capability classification (irrigated): 3e
Land capability (non irrigated): 4e
Ecological site: Loamy Plains (R067BY002CO)

Typical Profile

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

Minor Components

Avar

Percent of map unit: 8 percent

Manzanola

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 | | |
| | | <i>Lb/Ac</i> | <i>Lb/Ac</i> | <i>Lb/Ac</i> | | <i>Pct</i> |
| 41: | | | | | | |
| Nunn | Loamy Plains | 1,600 | 1,000 | 500 | Western wheatgrass | 40 |
| | | | | | Green needlegrass | 10 |
| | | | | | Fourwing saltbush | 5 |
| | | | | | Other perennial forbs | 3 |
| | | | | | Other perennial grasses | 3 |
| | | | | | Other shrubs | 3 |

Map Unit Description

Weld County, Colorado, Northern Part

57 Renohill-Shingle complex, 3 to 9 percent slopes

Setting

Elevation: 3600 to 6200 feet
Mean annual precipitation: 10 to 16 inches
Mean annual air temperature: 46 to 48 degrees F
Frost-free period: 100 to 160 days

Composition

Renohill and similar soils: 50 percent
Shingle and similar soils: 35 percent
Minor components: 15 percent

Description of Renohill

Setting

Landform: Breaks, ridges, plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous, clayey loamy residuum weathered from shale

Properties and Qualities

Slope: 3 to 9 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: 15 percent
Gypsum maximum: 0 percent
Available water capacity: Low (about 5.0 inches)

Interpretive Groups

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

Typical Profile

0 to 4 inches: fine sandy loam
4 to 13 inches: clay
13 to 29 inches: clay loam
29 to 33 inches: unweathered bedrock

Description of Shingle

Setting

Landform: Breaks, plains, ridges
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous loamy residuum weathered from shale

Properties and Qualities

Slope: 3 to 9 percent
Depth to restrictive feature: 10 to 20 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: 15 percent
Gypsum maximum: 0 percent
Available water capacity: Very low (about 2.1 inches)

Interpretive Groups

Land capability classification (irrigated): 6s
Land capability (non irrigated): 6s
Ecological site: Shaly Plains (R067BY045CO)

Typical Profile

Map Unit Description

Weld County, Colorado, Northern Part

0 to 4 inches: clay loam
4 to 11 inches: clay loam
11 to 15 inches: unweathered bedrock

Minor Components

Midway

Percent of map unit: 8 percent

Tassel

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 |
| 57: | | | | | | |
| Renohill | Loamy Plains | 1,400 | 1,100 | 800 | Western wheatgrass | 10 |
| | | | | | Other perennial grasses | 5 |
| Shingle | Shaly Plains | 900 | 700 | 500 | Western wheatgrass | 15 |
| | | | | | Needleandthread | 10 |
| | | | | | Sideoats grama | 10 |
| | | | | | Fourwing saltbush | 5 |
| | | | | | Winterfat | 5 |