

Map Unit Description

Weld County, Colorado, Northern Part

70 Ustic Torriorthents-Rock outcrop complex, 9 to 40 percent slopes

Setting

Elevation: 3500 to 6500 feet
Mean annual precipitation: 12 to 15 inches
Mean annual air temperature: 46 to 55 degrees F
Frost-free period: 120 to 150 days

Composition

Ustic torriorthents and similar soils: 60 percent
Rock outcrop: 20 percent
Minor components: 20 percent

Description of Ustic torriorthents

Setting

Landform: Escarpments, fans, alluvial fans
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandy loam gravelly alluvium and/or silt loam colluvium

Properties and Qualities

Slope: 9 to 40 percent
Depth to restrictive feature: 10 to 30 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: 5 percent
Gypsum maximum: 0 percent
Available water capacity: Very low (about 1.5 inches)

Interpretive Groups

Land capability classification (irrigated): 7s
Land capability (non irrigated): 7s
Ecological site: Sandstone Breaks (R067BY056CO)

Typical Profile

0 to 4 inches: variable
4 to 13 inches: gravelly loam
13 to 60 inches: bedrock

Description of Rock outcrop

Setting

Landform: Escarpments
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Sandstone

Properties and Qualities

Slope: 9 to 40 percent
Depth to restrictive feature: 0 to 0 inches to Lithic bedrock
Capacity of the most limiting layer to transmit water (Ksat): Very low or moderately low (0.00 to 0.06 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 0.0 inches)

Interpretive Groups

Land capability classification (irrigated): 8s
Land capability (non irrigated): 8s

Typical Profile

0 to 60 inches: bedrock

Minor Components

Map Unit Description

Weld County, Colorado, Northern Part

Cascajo

Percent of map unit: 20 percent

Map Unit Description

Weld County, Colorado, Northern Part

61 Stoneham fine sandy loam, 0 to 6 percent slopes

Setting

Elevation: 4000 to 6500 feet
Mean annual precipitation: 12 to 16 inches
Mean annual air temperature: 48 to 52 degrees F
Frost-free period: 130 to 170 days

Composition

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

Description of Stoneham

Setting

Landform: Alluvial fans, 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: 15 percent
Gypsum maximum: 0 percent
Available water capacity: Moderate (about 6.7 inches)

Interpretive Groups

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

Typical Profile

0 to 5 inches: fine sandy loam
5 to 8 inches: clay loam
8 to 14 inches: loam
14 to 60 inches: sandy loam, gravelly sandy loam

Minor Components

Mitchell

Percent of map unit: 5 percent

Kim

Percent of map unit: 5 percent

Map Unit Description

Weld County, Colorado, Northern Part

58 Rosebud fine sandy loam, 0 to 6 percent slopes

Setting

Elevation: 2500 to 5500 feet
Mean annual precipitation: 14 to 19 inches
Mean annual air temperature: 46 to 57 degrees F
Frost-free period: 120 to 150 days

Composition

Rosebud and similar soils: 85 percent
Minor components: 15 percent

Description of Rosebud

Setting

Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous loamy residuum weathered from sandstone

Properties and Qualities

Slope: 0 to 6 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
Sodium adsorption ratio maximum: 10.0
Available water capacity: Low (about 5.9 inches)

Interpretive Groups

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

Typical Profile

0 to 5 inches: fine sandy loam
5 to 10 inches: clay loam
10 to 19 inches: clay loam
19 to 24 inches: sandy clay loam
24 to 38 inches: sandy loam
38 to 41 inches: weathered bedrock

Minor Components

Ascalon

Percent of map unit: 9 percent

Platner

Percent of map unit: 6 percent