

Map Unit Description

Weld County, Colorado, Northern Part

27 Epping silt loam, 0 to 9 percent slopes

Setting

Elevation: 3600 to 5500 feet
Mean annual precipitation: 12 to 17 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 120 to 150 days

Composition

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

Description of Epping

Setting

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

Properties and Qualities

Slope: 0 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 2.9 inches)

Interpretive Groups

Land capability (non irrigated): 6s
Ecological site: Shallow Siltstone (R067BY039CO)

Typical Profile

0 to 3 inches: silt loam
3 to 17 inches: silt loam
17 to 20 inches: weathered bedrock

Minor Components

Keota

Percent of map unit: 5 percent

Thedalund

Percent of map unit: 4 percent

Mitchell

Percent of map unit: 3 percent

Kim

Percent of map unit: 3 percent

Map Unit Description

Weld County, Colorado, Northern Part

31 Kim-Mitchell complex, 0 to 6 percent slopes

Setting

Elevation: 3500 to 6500 feet
Mean annual precipitation: 11 to 17 inches
Mean annual air temperature: 46 to 54 degrees F
Frost-free period: 120 to 160 days

Composition

Kim and similar soils: 45 percent
Mitchell and similar soils: 40 percent
Minor components: 15 percent

Description of Kim

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 (0.20 to 0.60 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 15 percent
Gypsum maximum: 0 percent
Available water capacity: High (about 9.7 inches)

Interpretive Groups

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

Typical Profile

0 to 3 inches: loam
3 to 7 inches: clay loam
7 to 60 inches: loam

Description of Mitchell

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 (0.57 to 5.95 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 15 percent
Gypsum maximum: 0 percent
Available water capacity: High (about 10.8 inches)

Interpretive Groups

Land capability classification (irrigated): 4e
Land capability (non irrigated): 4e
Ecological site: Siltstone Plains (R067BY009CO)

Typical Profile

0 to 7 inches: silt loam
7 to 60 inches: silt loam

Map Unit Description

Weld County, Colorado, Northern Part

Minor Components

Haverson

Percent of map unit: 5 percent

Thedalund

Percent of map unit: 5 percent

Keota

Percent of map unit: 5 percent