

Map Unit Description

Weld County, Colorado, Northern Part

67 Thedalund-Keota loams, 3 to 9 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 160 days

Composition

Thedalund and similar soils: 45 percent
Keota and similar soils: 30 percent
Minor components: 25 percent

Description of Thedalund

Setting

Landform: Plains, ridges, alluvial fans
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Residuum weathered from siltstone and/or calcareous loamy residuum weathered from sandstone and 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 high (0.06 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: Low (about 4.1 inches)

Interpretive Groups

Land capability classification (irrigated): 4e
Land capability (non irrigated): 6e
Ecological site: Loamy Plains (R067BY002CO)

Typical Profile

0 to 3 inches: loam
3 to 24 inches: loam
24 to 28 inches: weathered bedrock

Description of Keota

Setting

Landform: Alluvial fans, plains, ridges
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous loamy residuum weathered from siltstone

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: 10 percent
Gypsum maximum: 0 percent
Available water capacity: Low (about 5.3 inches)

Interpretive Groups

Land capability classification (irrigated): 4e
Land capability (non irrigated): 6e
Ecological site: Siltstone Plains (R067BY009CO)

Typical Profile

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0 to 4 inches: loam
4 to 35 inches: silt loam
35 to 39 inches: unweathered bedrock

Minor Components

Epping

Percent of map unit: 10 percent

Shingle

Percent of map unit: 5 percent

Mitchell

Percent of map unit: 5 percent

Kim

Percent of map unit: 5 percent