

# 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