

## Weld County, Colorado, Northern Part

### 66—Thedalund-Keota loams, 0 to 3 percent slopes

#### Map Unit Setting

*Elevation:* 3,500 to 6,500 feet  
*Mean annual precipitation:* 13 to 17 inches  
*Mean annual air temperature:* 46 to 48 degrees F  
*Frost-free period:* 130 to 160 days

#### Map Unit Composition

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

#### Description of Thedalund

##### Setting

*Landform:* Ridges, alluvial fans, plains  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Calcareous loamy residuum weathered from sandstone and shale and/or residuum weathered from siltstone

##### Properties and qualities

*Slope:* 0 to 3 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 to high (0.06 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 15 percent  
*Maximum salinity:* Nonsaline to slightly saline (0.0 to 8.0 mmhos/cm)  
*Available water capacity:* Low (about 4.3 inches)

##### Interpretive groups

*Farmland classification:* Not prime farmland  
*Land capability classification (irrigated):* 4s  
*Land capability (nonirrigated):* 4e  
*Hydrologic Soil Group:* C  
*Ecological site:* Loamy Plains (R067BY002CO)

##### Typical profile

*0 to 3 inches:* Loam  
*3 to 25 inches:* Loam  
*25 to 29 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:* 0 to 3 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 to moderately high (0.06 to 0.20 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 10 percent  
*Maximum salinity:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Available water capacity:* Low (about 5.3 inches)

**Interpretive groups**

*Farmland classification:* Not prime farmland  
*Land capability classification (irrigated):* 4s  
*Land capability (nonirrigated):* 4e  
*Hydrologic Soil Group:* B  
*Ecological site:* Siltstone Plains (R067BY009CO)

**Typical profile**

*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

**Data Source Information**

Soil Survey Area: Weld County, Colorado, Northern Part  
Survey Area Data: Version 8, Apr 30, 2009