

## Map Unit Description

Weld County, Colorado, Northern Part

CASTOR LD12-78HN

CASTOR FEDERAL LD13-78HN

T9N-R58W-S12 SWSW

WELD, CO

### 66 Thedalund-Keota loams, 0 to 3 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: 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 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 4.3 inches)

##### Interpretive Groups

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

##### Typical Profile

CASTOR LD12-78 HN

+

CASTOR FEDERAL LD13-78 HN

T4N - R58W - S12 SWSW

Weld, CO

## Map Unit Description

Weld County, Colorado, Northern Part

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

CASTOR L012-78HN

CASTOR FEDERAL L013-78HN

## Map Unit Description

T9N - R58W - S12 SW SW

Weld County, Colorado, Northern Part

WELD, CO

5

### Ascalon fine sandy loam, 6 to 9 percent slopes

#### Setting

Elevation: 4500 to 6500 feet  
Mean annual precipitation: 13 to 17 inches  
Mean annual air temperature: 46 to 57 degrees F  
Frost-free period: 130 to 160 days

#### Composition

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

#### Description of Ascalon

##### Setting

Landform: Plains  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Calcareous loamy alluvium

##### Properties and Qualities

Slope: 6 to 9 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: 10 percent  
Gypsum maximum: 0 percent  
Available water capacity: Moderate (about 6.8 inches)

##### Interpretive Groups

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

##### Typical Profile

0 to 6 inches: fine sandy loam  
6 to 21 inches: sandy clay loam  
21 to 60 inches: sandy loam

#### Minor Components

##### Altvan

Percent of map unit: 7 percent

##### Peetz

Percent of map unit: 4 percent

##### Cascajo

Percent of map unit: 3 percent

##### Aquic haplustolls

Percent of map unit: 1 percent  
Landform: Swales