

## Weld County, Colorado, Northern Part

### 81—Treon-Aberone fine sandy loams, 6 to 30 percent slopes

#### Map Unit Setting

*National map unit symbol:* 361b  
*Elevation:* 5,000 to 6,500 feet  
*Mean annual precipitation:* 15 to 17 inches  
*Mean annual air temperature:* 45 to 48 degrees F  
*Frost-free period:* 115 to 125 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Treon and similar soils:* 60 percent  
*Aberone and similar soils:* 30 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Treon

##### Setting

*Landform:* Hills  
*Down-slope shape:* Linear  
*Across-slope shape:* Convex  
*Parent material:* Residuum weathered from sandstone

##### Typical profile

*A - 0 to 8 inches:* fine sandy loam  
*Ck - 8 to 16 inches:* fine sandy loam  
*Cr - 16 to 60 inches:* bedrock

##### Properties and qualities

*Slope:* 15 to 30 percent  
*Depth to restrictive feature:* 10 to 20 inches to paralithic bedrock  
*Natural drainage class:* Well drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately high (0.20 to 0.60 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum in profile:* 5 percent  
*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Available water storage in profile:* Very low (about 2.3 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 7e  
*Land capability classification (nonirrigated):* 7e  
*Hydrologic Soil Group:* D  
*Ecological site:* SHALLOW SANDY (15-17SP) (R067XY266WY)

*Hydric soil rating:* No

### **Description of Aberone**

#### **Setting**

*Landform:* Draws, terraces, hills

*Down-slope shape:* Linear

*Across-slope shape:* Convex

*Parent material:* Alluvium and/or colluvium derived from sandstone

#### **Typical profile**

*A - 0 to 7 inches:* fine sandy loam

*B - 7 to 16 inches:* sandy loam

*Ck - 16 to 60 inches:* very gravelly sandy loam

#### **Properties and qualities**

*Slope:* 6 to 15 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Well drained

*Runoff class:* Low

*Capacity of the most limiting layer to transmit water (Ksat):* High  
(2.00 to 6.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum in profile:* 70 percent

*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Available water storage in profile:* Low (about 3.8 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* 6s

*Land capability classification (nonirrigated):* 6s

*Hydrologic Soil Group:* A

*Ecological site:* SANDY (15-17SP) (R067XY250WY)

*Hydric soil rating:* No

### **Minor Components**

#### **Vetal**

*Percent of map unit:* 10 percent

*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 12, Oct 10, 2017

## Weld County, Colorado, Northern Part

### 4—Ascalon fine sandy loam, 0 to 6 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2tlp5

*Elevation:* 4,550 to 6,050 feet

*Mean annual precipitation:* 12 to 17 inches

*Mean annual air temperature:* 46 to 54 degrees F

*Frost-free period:* 135 to 160 days

*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

*Ascalon and similar soils:* 85 percent

*Minor components:* 15 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Ascalon

##### Setting

*Landform:* Interfluves

*Landform position (two-dimensional):* Backslope, summit

*Landform position (three-dimensional):* Interfluve

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Wind-reworked alluvium and/or calcareous sandy eolian deposits

##### Typical profile

*Ap - 0 to 7 inches:* fine sandy loam

*Bt1 - 7 to 13 inches:* sandy clay loam

*Bt2 - 13 to 18 inches:* sandy clay loam

*Bk - 18 to 48 inches:* sandy loam

*C - 48 to 80 inches:* sandy loam

##### Properties and qualities

*Slope:* 0 to 6 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Well drained

*Runoff class:* Low

*Capacity of the most limiting layer to transmit water (Ksat):*

Moderately high to high (0.60 to 6.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum in profile:* 10 percent

*Salinity, maximum in profile:* Nonsaline (0.1 to 1.9 mmhos/cm)

*Sodium adsorption ratio, maximum in profile:* 1.0

*Available water storage in profile:* Moderate (about 6.8 inches)

### **Interpretive groups**

*Land capability classification (irrigated):* 3e  
*Land capability classification (nonirrigated):* 4e  
*Hydrologic Soil Group:* B  
*Ecological site:* Sandy Plains (R067BY024CO)  
*Hydric soil rating:* No

### **Minor Components**

#### **Olnest**

*Percent of map unit:* 8 percent  
*Landform:* Interfluves  
*Landform position (two-dimensional):* Backslope  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* Sandy Plains (R067BY024CO)  
*Hydric soil rating:* No

#### **Otero**

*Percent of map unit:* 7 percent  
*Landform:* Interfluves  
*Landform position (two-dimensional):* Footslope  
*Landform position (three-dimensional):* Base slope  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* Sandy Plains (R067BY024CO)  
*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Weld County, Colorado, Northern Part  
Survey Area Data: Version 12, Oct 10, 2017

## Weld County, Colorado, Northern Part

### 80—Manter sandy loam, 0 to 6 percent slopes

#### Map Unit Setting

*National map unit symbol:* 3619

*Elevation:* 5,000 to 6,500 feet

*Mean annual precipitation:* 15 to 17 inches

*Mean annual air temperature:* 45 to 48 degrees F

*Frost-free period:* 115 to 125 days

*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

*Manter and similar soils:* 85 percent

*Minor components:* 15 percent

*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Manter

##### Setting

*Landform:* Knolls, terraces, alluvial fans

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Eolian deposits and/or alluvium derived from sedimentary rock

##### Typical profile

*A - 0 to 7 inches:* sandy loam

*Bt1 - 7 to 19 inches:* loam

*Bt2 - 19 to 23 inches:* fine sandy loam

*Ck - 23 to 60 inches:* fine sandy loam

##### Properties and qualities

*Slope:* 0 to 6 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Well drained

*Runoff class:* Very low

*Capacity of the most limiting layer to transmit water (Ksat):*

Moderately high to high (0.60 to 2.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum in profile:* 15 percent

*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Available water storage in profile:* Moderate (about 8.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 3e

*Land capability classification (nonirrigated):* 3e

*Hydrologic Soil Group:* B

*Ecological site:* SANDY (15-17SP) (R067XY250WY)  
*Hydric soil rating:* No

#### **Minor Components**

##### **Ascalon**

*Percent of map unit:* 8 percent  
*Hydric soil rating:* No

##### **Bayard**

*Percent of map unit:* 7 percent  
*Hydric soil rating:* No

### **Data Source Information**

Soil Survey Area: Weld County, Colorado, Northern Part  
Survey Area Data: Version 12, Oct 10, 2017