

## 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:* Terraces, knolls, 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 (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)

### **Minor Components**

#### **Ascalon**

*Percent of map unit:* 8 percent

#### **Bayard**

*Percent of map unit:* 7 percent

## **Data Source Information**

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 10, Sep 23, 2014

## 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 (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)

## 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 (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)

## Minor Components

### Vetal

*Percent of map unit:* 10 percent

## Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 10, Sep 23, 2014