

## Weld County, Colorado, Northern Part

### 51—Peetz gravelly sandy loam, 5 to 20 percent slopes

#### Map Unit Setting

*National map unit symbol:* 3606

*Elevation:* 3,500 to 6,500 feet

*Mean annual precipitation:* 15 to 19 inches

*Mean annual air temperature:* 48 to 50 degrees F

*Frost-free period:* 120 to 150 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Peetz and similar soils:* 80 percent

*Minor components:* 20 percent

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

#### Description of Peetz

##### Setting

*Landform:* Breaks, ridges

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

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Calcareous gravelly alluvium

##### Typical profile

*H1 - 0 to 4 inches:* gravelly sandy loam

*H2 - 4 to 60 inches:* very gravelly sand

##### Properties and qualities

*Slope:* 5 to 20 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Somewhat excessively 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:* 20 percent

*Available water storage in profile:* Low (about 3.1 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 6e

*Land capability classification (nonirrigated):* 6e

*Hydrologic Soil Group:* A

*Ecological site:* Gravel breaks (R067BY063CO)

### **Minor Components**

#### **Wages**

*Percent of map unit:* 10 percent

#### **Altvan**

*Percent of map unit:* 5 percent

#### **Ascalon**

*Percent of map unit:* 3 percent

#### **Bushman**

*Percent of map unit:* 2 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

### 69—Treon-Rock outcrop complex, 9 to 40 percent slopes

#### Map Unit Setting

*National map unit symbol:* 360t

*Elevation:* 5,400 to 5,700 feet

*Mean annual precipitation:* 12 to 15 inches

*Mean annual air temperature:* 46 to 48 degrees F

*Frost-free period:* 120 to 160 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Treon and similar soils:* 50 percent

*Rock outcrop:* 30 percent

*Minor components:* 20 percent

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

#### Description of Treon

##### Setting

*Landform:* Escarpments

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Calcareous loamy residuum weathered from sandstone

##### Typical profile

*H1 - 0 to 7 inches:* fine sandy loam

*H2 - 7 to 11 inches:* fine sandy loam

*Cr - 11 to 60 inches:* bedrock

##### Properties and qualities

*Slope:* 9 to 20 percent

*Depth to restrictive feature:* 6 to 20 inches to paralithic bedrock

*Natural drainage class:* Well drained

*Runoff class:* Medium

*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 in profile:* 15 percent

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

*Available water storage in profile:* Very low (about 1.6 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 7s

*Land capability classification (nonirrigated):* 7e

*Hydrologic Soil Group:* D

*Ecological site:* Sandstone breaks (R067BY056CO)

## Description of Rock Outcrop

### Setting

*Landform:* Escarpments  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Sandstone

### Typical profile

*R - 0 to 60 inches:* bedrock

### Properties and qualities

*Slope:* 9 to 40 percent  
*Depth to restrictive feature:* 0 inches to lithic bedrock  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)  
*Available water storage in profile:* Very low (about 0.0 inches)

### Interpretive groups

*Land capability classification (irrigated):* 8s  
*Land capability classification (nonirrigated):* 8s

## Minor Components

### Bushman

*Percent of map unit:* 10 percent

### Nucla

*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

## 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