

Weld County, Colorado, Northern Part

5—Ascalon fine sandy loam, 6 to 9 percent slopes

Map Unit Setting

Elevation: 4,500 to 6,500 feet

Mean annual precipitation: 13 to 17 inches

Mean annual air temperature: 46 to 57 degrees F

Frost-free period: 130 to 160 days

Map Unit 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

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

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 content: 10 percent

Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)

Available water capacity: Moderate (about 6.8 inches)

Interpretive groups

Land capability classification (irrigated): 4e

Land capability (nonirrigated): 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

Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 8, Apr 30, 2009

Weld County, Colorado, Northern Part

52—Peetz-Altvan complex, 0 to 20 percent slopes

Map Unit Setting

Elevation: 3,500 to 6,500 feet

Mean annual precipitation: 14 to 19 inches

Mean annual air temperature: 46 to 50 degrees F

Frost-free period: 120 to 150 days

Map Unit Composition

Peetz and similar soils: 40 percent

Altvan and similar soils: 35 percent

Minor components: 25 percent

Description of Peetz

Setting

Landform: Plains, breaks, ridges

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous gravelly alluvium

Properties and qualities

Slope: 0 to 20 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Somewhat excessively drained

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 content: 20 percent

Available water capacity: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e

Land capability (nonirrigated): 6e

Ecological site: Sandstone Breaks (R067BY056CO)

Typical profile

0 to 4 inches: Gravelly sandy loam

4 to 60 inches: Very gravelly sand

Description of Altvan

Setting

Landform: Breaks, plains, ridges

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous, gravelly alluvium

Properties and qualities

Slope: 0 to 15 percent

Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water
(Ksat): Moderately high to high (0.20 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: 5 percent
Available water capacity: Low (about 4.9 inches)

Interpretive groups

Land capability classification (irrigated): 6e
Land capability (nonirrigated): 6e
Ecological site: Loamy Plains (R067BY002CO)

Typical profile

0 to 3 inches: Fine sandy loam
3 to 19 inches: Sandy clay loam
19 to 60 inches: Gravelly coarse sand

Minor Components

Bushman

Percent of map unit: 15 percent

Otero

Percent of map unit: 5 percent

Paoli

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