

Weld County, Colorado, Northern Part

1—Altvan fine sandy loam, 0 to 6 percent slopes

Map Unit Setting

National map unit symbol: 35yq

Elevation: 3,500 to 5,500 feet

Mean annual precipitation: 14 to 16 inches

Mean annual air temperature: 46 to 48 degrees F

Frost-free period: 130 to 150 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Altvan and similar soils: 85 percent

Minor components: 15 percent

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

Description of Altvan

Setting

Landform: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous gravelly alluvium

Typical profile

H1 - 0 to 6 inches: fine sandy loam

H2 - 6 to 22 inches: sandy clay loam

H3 - 22 to 27 inches: sandy clay loam

H4 - 27 to 60 inches: gravelly coarse sand

Properties and qualities

Slope: 0 to 6 percent

Depth to restrictive feature: 20 to 40 inches to strongly contrasting textural stratification

Natural drainage class: Well drained

Runoff class: Low

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 in profile: 15 percent

Available water storage in profile: Low (about 4.6 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: B

Ecological site: Loamy Plains (R067BY002CO)

Minor Components

Peetz

Percent of map unit: 5 percent

Cascajo

Percent of map unit: 5 percent

Ascalon

Percent of map unit: 5 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

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

Map Unit Setting

National map unit symbol: 35zs

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

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: Plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous loamy alluvium

Typical profile

H1 - 0 to 8 inches: fine sandy loam

H2 - 8 to 22 inches: sandy clay loam

H3 - 22 to 60 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 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: 10 percent

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

Available water storage in profile: Moderate (about 6.9 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: B

Ecological site: Loamy Plains (R067BY002CO)

Minor Components

Olney

Percent of map unit: 8 percent

Otero

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