

## 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**

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