

## Map Unit Description

Weld County, Colorado, Northern Part

### 2 Altvan fine sandy loam, 6 to 9 percent slopes

#### Setting

Elevation: 3500 to 5500 feet  
Mean annual precipitation: 14 to 16 inches  
Mean annual air temperature: 46 to 48 degrees F  
Frost-free period: 130 to 150 days

#### Composition

Altvan and similar soils: 85 percent  
Minor components: 15 percent

#### Description of Altvan

##### Setting

Landform: Plains  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Calcareous gravelly alluvium

##### Properties and Qualities

Slope: 6 to 9 percent  
Depth to restrictive feature: 20 to 40 inches to Strongly contrasting textural stratification  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.20 to 2.00 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 15 percent  
Gypsum maximum: 0 percent  
Available water capacity: Low (about 3.9 inches)

##### Interpretive Groups

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

##### Typical Profile

0 to 3 inches: fine sandy loam  
3 to 19 inches: sandy clay loam  
19 to 23 inches: sandy clay loam  
23 to 60 inches: gravelly coarse sand

#### Minor Components

##### Cascajo

Percent of map unit: 5 percent

##### Ascalon

Percent of map unit: 5 percent

##### Peetz

Percent of map unit: 5 percent

## Map Unit Description

Weld County, Colorado, Northern Part

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

#### Setting

Elevation: 4500 to 6500 feet  
Mean annual precipitation: 13 to 17 inches  
Mean annual air temperature: 46 to 57 degrees F  
Frost-free period: 130 to 160 days

#### 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: 0 to 6 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.60 to 2.00 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 10 percent  
Gypsum maximum: 0 percent  
Available water capacity: Moderate (about 6.9 inches)

##### Interpretive Groups

Land capability classification (irrigated): 3e  
Land capability (non irrigated): 3e  
Ecological site: Loamy Plains (R067BY002CO)

##### Typical Profile

0 to 8 inches: fine sandy loam  
8 to 22 inches: sandy clay loam  
22 to 60 inches: sandy loam

#### Minor Components

##### Olney

Percent of map unit: 8 percent

##### Otero

Percent of map unit: 7 percent

## Map Unit Description

Weld County, Colorado, Northern Part

41 Nunn clay loam, 0 to 6 percent slopes

### Setting

Elevation: 4500 to 6700 feet  
Mean annual precipitation: 12 to 18 inches  
Mean annual air temperature: 46 to 54 degrees F  
Frost-free period: 115 to 180 days

### Composition

Nunn and similar soils: 85 percent  
Minor components: 15 percent

### Description of Nunn

#### Setting

Landform: Stream terraces, plains  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Calcareous loamy alluvium

#### Properties and Qualities

Slope: 0 to 6 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately low or moderately high (0.06 to 0.20 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 15 percent  
Gypsum maximum: 0 percent  
Available water capacity: High (about 9.2 inches)

#### Interpretive Groups

Land capability classification (irrigated): 3e  
Land capability (non irrigated): 4e  
Ecological site: Loamy Plains (R067BY002CO)

#### Typical Profile

0 to 8 inches: clay loam  
8 to 22 inches: clay loam  
22 to 60 inches: clay loam

### Minor Components

#### Avar

Percent of map unit: 8 percent

#### Manzanola

Percent of map unit: 7 percent