

Township 5 North, Range 65 West  
Section 33: SE 1/4 SW 1/4  
6/17/09

## Map Unit Description

Weld County, Colorado, Southern Part

### 1 Altvan loam, 0 to 1 percent slopes

#### Setting

Elevation: 4500 to 4900 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: 90 percent  
Minor components: 10 percent

#### Description of Altvan

##### Setting

Landform: Terraces  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Old alluvium

##### Properties and Qualities

Slope: 0 to 1 percent  
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: 5 percent  
Gypsum maximum: 0 percent  
Available water capacity: Low (about 5.7 inches)

##### Interpretive Groups

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

##### Typical Profile

0 to 10 inches: loam  
10 to 25 inches: clay loam  
25 to 60 inches: gravelly sand

#### Minor Components

##### Cascajo

Percent of map unit: 9 percent

##### Aquic haplustolls

Percent of map unit: 1 percent  
Landform: Swales

Township 5 North, Range 65 West, 6th  
Section 33: SE 1/4 SW 1/4  
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## Map Unit Description

Weld County, Colorado, Southern Part

### 4 Aquolls and Aquepts, flooded

#### Setting

Elevation: 3600 to 4700 feet  
Mean annual precipitation: 12 to 16 inches  
Mean annual air temperature: 50 to 55 degrees F  
Frost-free period: 100 to 165 days

#### Composition

Aquolls and similar soils: 55 percent  
Aquepts, flooded, and similar soils: 25 percent  
Minor components: 20 percent

#### Description of Aquolls

##### Setting

Landform: Drainageways, plains, depressions  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Recent alluvium

##### Properties and Qualities

Slope: 0 to 3 percent  
Drainage class: Poorly drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately low or high (0.06 to 6.00 in/hr)  
Depth to water table: About 6 to 36 inches  
Frequency of flooding: Frequent  
Frequency of ponding: None  
Calcium carbonate maximum: 10 percent  
Gypsum maximum: 0 percent  
Salinity maximum: Slightly saline or moderately saline (8.0 to 16.0 mmhos/cm)  
Sodium adsorption ratio maximum: 5.0  
Available water capacity: Low (about 4.7 inches)

##### Interpretive Groups

Land capability classification (irrigated): 6w  
Land capability (non irrigated): 6w  
Ecological site: Salt Meadow (R067BY035CO)

##### Typical Profile

0 to 8 inches: variable  
8 to 60 inches: stratified sandy loam to clay

#### Description of Aquepts, flooded

##### Setting

Landform: Stream terraces  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Recent alluvium

##### Properties and Qualities

Slope: 0 to 3 percent  
Drainage class: Poorly drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately low or high (0.06 to 6.00 in/hr)  
Depth to water table: About 6 to 36 inches  
Frequency of flooding: Frequent  
Frequency of ponding: None  
Calcium carbonate maximum: 10 percent  
Gypsum maximum: 0 percent  
Salinity maximum: Slightly saline or moderately saline (8.0 to 16.0 mmhos/cm)  
Sodium adsorption ratio maximum: 5.0  
Available water capacity: Low (about 4.7 inches)

##### Interpretive Groups

Land capability classification (irrigated): 6w  
Land capability (non irrigated): 6w

Township 5 North, Range 65 West, 6<sup>th</sup>  
Section 33: SE 1/4 SW 1/4  
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## Map Unit Description

Weld County, Colorado, Southern Part

Ecological site: Wet Meadow (R067BY038CO)

### Typical Profile

0 to 8 inches: variable

8 to 60 inches: stratified sandy loam to clay

### Minor Components

#### Thedalund

Percent of map unit: 10 percent

#### Haverson

Percent of map unit: 10 percent

Township 5 North, Range 65 West,  
Section 33: SE 1/4 SW 1/4 6TH PM

## Map Unit Description

Weld County, Colorado, Southern Part

### 75 Vona sandy loam, 0 to 1 percent slopes

#### Setting

Elevation: 4650 to 4950 feet  
Mean annual precipitation: 13 to 15 inches  
Mean annual air temperature: 48 to 55 degrees F  
Frost-free period: 130 to 160 days

#### Composition

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

#### Description of Vona

##### Setting

Landform: Terraces  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Alluvium

##### Properties and Qualities

Slope: 0 to 1 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 6.00 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 15 percent  
Gypsum maximum: 0 percent  
Available water capacity: Moderate (about 6.8 inches)

##### Interpretive Groups

Land capability classification (irrigated): 3e  
Ecological site: Sandy Plains (R067BY024CO)

##### Typical Profile

0 to 6 inches: sandy loam  
6 to 28 inches: fine sandy loam  
28 to 60 inches: sandy loam

#### Minor Components

##### Remmit

Percent of map unit: 11 percent

##### Olney

Percent of map unit: 4 percent