

## Map Unit Description

Weld County, Colorado, Southern Part

FRONT RANGE K17-28D

T4N - R66W

Sec 17: NWNE

### 3 Aquolls and Aquepts, gravelly substratum

#### Setting

Elevation: 4000 to 7200 feet  
Mean annual precipitation: 12 to 18 inches  
Mean annual air temperature: 45 to 55 degrees F  
Frost-free period: 80 to 155 days

#### Composition

Aquolls and similar soils: 55 percent  
Aquepts, gravelly substratum, and similar soils: 30 percent  
Minor components: 15 percent

#### Description of Aquolls

##### Setting

Landform: Swales, streams, flood plains  
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 high or high (0.20 to 2.00 in/hr)  
Depth to water table: About 6 to 48 inches  
Frequency of flooding: Frequent  
Frequency of ponding: None  
Calcium carbonate maximum: 0 percent  
Gypsum maximum: 0 percent  
Available water capacity: Moderate (about 8.0 inches)

##### Interpretive Groups

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

##### Typical Profile

0 to 48 inches: loam  
48 to 60 inches: gravelly sand

#### Description of Aquepts, gravelly substratum

##### 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 high or very high (0.57 to 19.98 in/hr)  
Depth to water table: About 6 to 24 inches  
Frequency of flooding: Frequent  
Frequency of ponding: None  
Calcium carbonate maximum: 10 percent  
Gypsum maximum: 0 percent  
Available water capacity: Moderate (about 6.6 inches)

##### Interpretive Groups

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

##### Typical Profile

0 to 48 inches: variable  
48 to 60 inches: very gravelly sand

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**Minor Components**

**Bankard**

Percent of map unit: 10 percent

**Ustic torrifuvents**

Percent of map unit: 5 percent

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68 Ustic Torriorthents, moderately steep

### Setting

Elevation: 4450 to 5100 feet  
Mean annual precipitation: 10 to 16 inches  
Mean annual air temperature: 46 to 54 degrees F  
Frost-free period: 120 to 160 days

### Composition

Ustic torriorthents and similar soils: 85 percent  
Minor components: 15 percent

### Description of Ustic torriorthents

#### Setting

Landform: Escarpments, breaks  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Gravelly alluvium

#### Properties and Qualities

Slope: 9 to 15 percent  
Drainage class: Excessively drained  
Capacity of the most limiting layer to transmit water (Ksat): High or very high (5.95 to 19.98 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 5 percent  
Gypsum maximum: 0 percent  
Available water capacity: Very low (about 1.8 inches)

#### Interpretive Groups

Land capability (non irrigated): 7s

#### Typical Profile

0 to 10 inches: gravelly sand  
10 to 60 inches: gravelly sand

### Minor Components

#### Columbo

Percent of map unit: 10 percent

#### Eckley

Percent of map unit: 3 percent

#### Otero

Percent of map unit: 2 percent