

## Weld County, Colorado, Southern Part

### 3—Aquolls and Aquepts, gravelly substratum

#### Map Unit Setting

*National map unit symbol:* 3627

*Elevation:* 4,000 to 7,200 feet

*Mean annual precipitation:* 12 to 18 inches

*Mean annual air temperature:* 45 to 55 degrees F

*Frost-free period:* 80 to 155 days

*Farmland classification:* Prime farmland if drained and either  
protected from flooding or not frequently flooded during the  
growing season

#### Map Unit Composition

*Aquolls and similar soils:* 55 percent

*Aquepts, gravelly substratum, and similar soils:* 30 percent

*Minor components:* 15 percent

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

#### Description of Aquolls

##### Setting

*Landform:* Flood plains, swales, streams

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Recent alluvium

##### Typical profile

*H1 - 0 to 48 inches:* loam

*H2 - 48 to 60 inches:* gravelly sand

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Poorly 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:* About 6 to 48 inches

*Frequency of flooding:* Frequent

*Frequency of ponding:* None

*Salinity, maximum in profile:* Nonsaline to slightly saline (0.0 to 4.0  
mmhos/cm)

*Available water storage in profile:* Moderate (about 8.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 6w

*Hydrologic Soil Group:* D

*Ecological site:* Salt Meadow (R067BY035CO)

*Hydric soil rating:* Yes

### **Description of Aquepts, Gravelly Substratum**

#### **Setting**

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

#### **Typical profile**

*H1 - 0 to 48 inches:* variable  
*H2 - 48 to 60 inches:* very gravelly sand

#### **Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Poorly drained  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately high to 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 in profile:* 10 percent  
*Salinity, maximum in profile:* Nonsaline to moderately saline (0.0 to 8.0 mmhos/cm)  
*Available water storage in profile:* Moderate (about 6.6 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* 6w  
*Land capability classification (nonirrigated):* 6w  
*Hydrologic Soil Group:* D  
*Ecological site:* Salt Meadow (R067BY035CO)  
*Hydric soil rating:* Yes

### **Minor Components**

#### **Bankard**

*Percent of map unit:* 10 percent  
*Hydric soil rating:* No

#### **Ustic torrifluvents**

*Percent of map unit:* 5 percent  
*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Weld County, Colorado, Southern Part  
Survey Area Data: Version 15, Sep 22, 2016

## Weld County, Colorado, Southern Part

### 10—Bankard sandy loam, 0 to 3 percent slopes, frequently flooded

#### Map Unit Setting

*National map unit symbol:* 2s51n

*Elevation:* 4,090 to 5,410 feet

*Mean annual precipitation:* 12 to 17 inches

*Mean annual air temperature:* 48 to 52 degrees F

*Frost-free period:* 130 to 160 days

*Farmland classification:* Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60

#### Map Unit Composition

*Bankard, frequently flooded, and similar soils:* 80 percent

*Minor components:* 20 percent

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

#### Description of Bankard, Frequently Flooded

##### Setting

*Landform:* Flood plains, ephemeral streams

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Sandy alluvium

##### Typical profile

*A - 0 to 2 inches:* sandy loam

*AC - 2 to 9 inches:* sandy loam

*C1 - 9 to 17 inches:* loamy sand

*C2 - 17 to 80 inches:* sand

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Somewhat excessively drained

*Runoff class:* Very low

*Capacity of the most limiting layer to transmit water (Ksat):* High  
(2.00 to 6.00 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* Frequent

*Frequency of ponding:* None

*Calcium carbonate, maximum in profile:* 10 percent

*Salinity, maximum in profile:* Nonsaline (0.0 to 1.9 mmhos/cm)

*Available water storage in profile:* Low (about 3.5 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 6s

*Land capability classification (nonirrigated):* 6s

*Hydrologic Soil Group:* A

*Ecological site:* Sandy Bottomland (R067BY031CO)  
*Hydric soil rating:* No

### **Minor Components**

#### **Glenberg, rarely flooded**

*Percent of map unit:* 8 percent  
*Landform:* Flood-plain steps, ephemeral streams  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* Sandy Bottomland (R067BY031CO)  
*Hydric soil rating:* No

#### **Kitcarson, frequently flooded**

*Percent of map unit:* 5 percent  
*Landform:* Flood plains, ephemeral streams  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear, concave  
*Ecological site:* Wet Meadow (R067BY038CO)  
*Hydric soil rating:* No

#### **Alda, frequently flooded**

*Percent of map unit:* 5 percent  
*Landform:* Flood plains  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Ecological site:* Salt Meadow (R067BY035CO)  
*Hydric soil rating:* No

#### **Las animas, frequently flooded**

*Percent of map unit:* 2 percent  
*Landform:* Flood plains, ephemeral streams  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear, concave  
*Ecological site:* Salt Meadow (R072XY035CO)  
*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Weld County, Colorado, Southern Part  
Survey Area Data: Version 15, Sep 22, 2016