

## 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:* Swales, streams, flood plains

*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

*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:* FrequentNone

*Frequency of ponding:* None

*Maximum salinity:* Nonsaline to slightly saline (0.0 to 4.0  
mmhos/cm)

*Available water supply, 0 to 60 inches:* Moderate (about 8.0  
inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 6w

*Hydrologic Soil Group:* D

*Ecological site:* R067BY035CO - Salt Meadow  
*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  
*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:* FrequentNone  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 10 percent  
*Maximum salinity:* Nonsaline to moderately saline (0.0 to 8.0  
mmhos/cm)  
*Available water supply, 0 to 60 inches:* Moderate (about 6.6  
inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* 6w  
*Land capability classification (nonirrigated):* 6w  
*Hydrologic Soil Group:* D  
*Ecological site:* R067BY035CO - Salt Meadow  
*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 20, Aug 31, 2021