

## Weld County, Colorado, Southern Part

### 4—Aquolls and Aquepts, flooded

#### Map Unit Setting

*National map unit symbol:* 362I

*Elevation:* 3,600 to 4,700 feet

*Mean annual precipitation:* 12 to 16 inches

*Mean annual air temperature:* 50 to 55 degrees F

*Frost-free period:* 100 to 165 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, flooded, and similar soils:* 25 percent

*Minor components:* 20 percent

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

#### Description of Aquolls

##### Setting

*Landform:* Depressions, drainageways, plains

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Recent alluvium

##### Typical profile

*H1 - 0 to 8 inches:* variable

*H2 - 8 to 60 inches:* stratified sandy loam to clay

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Poorly drained

*Runoff class:* Very low

*Capacity of the most limiting layer to transmit water (Ksat):*

Moderately low to 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 in profile:* 10 percent

*Salinity, maximum in profile:* Moderately saline to strongly saline (8.0 to 16.0 mmhos/cm)

*Sodium adsorption ratio, maximum in profile:* 5.0

*Available water storage in profile:* Low (about 4.7 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

### **Description of Aquepts, Flooded**

#### **Setting**

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

#### **Typical profile**

*H1 - 0 to 8 inches:* variable  
*H2 - 8 to 60 inches:* stratified sandy loam to clay

#### **Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Poorly drained  
*Runoff class:* Very low  
*Capacity of the most limiting layer to transmit water (Ksat):*  
Moderately low to 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 in profile:* 10 percent  
*Salinity, maximum in profile:* Moderately saline to strongly saline  
(8.0 to 16.0 mmhos/cm)  
*Sodium adsorption ratio, maximum in profile:* 5.0  
*Available water storage in profile:* Low (about 4.7 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* 6w  
*Land capability classification (nonirrigated):* 6w  
*Hydrologic Soil Group:* D  
*Ecological site:* Wet Meadow (R067BY038CO)  
*Hydric soil rating:* Yes

### **Minor Components**

#### **Thedalund**

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

#### **Haverson**

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

## **Data Source Information**

Soil Survey Area: Weld County, Colorado, Southern Part  
Survey Area Data: Version 16, Oct 10, 2017