

## Weld County, Colorado, Southern Part

### 3—Aquolls and Aquepts, gravelly substratum

#### Map Unit Setting

*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

#### Map Unit 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

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Poorly drained

*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

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

*Available water capacity:* Moderate (about 8.0 inches)

##### Interpretive groups

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

*Land capability (nonirrigated):* 6w

*Hydrologic Soil Group:* D

*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

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Poorly drained

*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 content:* 10 percent

*Maximum salinity:* Nonsaline to slightly saline (0.0 to 8.0 mmhos/cm)

*Available water capacity:* Moderate (about 6.6 inches)

#### **Interpretive groups**

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

*Land capability classification (irrigated):* 6w

*Land capability (nonirrigated):* 6w

*Hydrologic Soil Group:* D

*Ecological site:* Salt Meadow (R067BY035CO)

#### **Typical profile**

*0 to 48 inches:* Variable

*48 to 60 inches:* Very gravelly sand

#### **Minor Components**

##### **Bankard**

*Percent of map unit:* 10 percent

##### **Ustic torrifluvents**

*Percent of map unit:* 5 percent

## **Data Source Information**

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 12, Jan 3, 2014