

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

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Percent of map unit: 10 percent

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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