

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

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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