

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: Flood plains, streams, swales
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 torrfluvents

Percent of map unit: 5 percent

Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part
Survey Area Data: Version 11, Aug 27, 2009

Weld County, Colorado, Southern Part

15—Colby loam, 1 to 3 percent slopes

Map Unit Setting

Elevation: 4,850 to 5,050 feet
Mean annual precipitation: 12 to 16 inches
Mean annual air temperature: 48 to 50 degrees F
Frost-free period: 135 to 155 days

Map Unit Composition

Colby and similar soils: 85 percent
Minor components: 15 percent

Description of Colby

Setting

Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous eolian deposits

Properties and qualities

Slope: 1 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.57 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Available water capacity: High (about 10.6 inches)

Interpretive groups

Farmland classification: Prime farmland if irrigated
Land capability classification (irrigated): 3e
Land capability (nonirrigated): 4e
Hydrologic Soil Group: B
Ecological site: Loamy Plains (R067BY002CO)

Typical profile

0 to 7 inches: Loam
7 to 60 inches: Silt loam

Minor Components

Wiley

Percent of map unit: 9 percent

Keith

Percent of map unit: 6 percent

Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 11, Aug 27, 2009

Weld County, Colorado, Southern Part

85—Water

Map Unit Composition

Water: 95 percent

Minor components: 5 percent

Minor Components

Aquolls

Percent of map unit: 5 percent

Landform: Marshes

Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 11, Aug 27, 2009