

Weld County, Colorado, Northern Part

49—Paoli fine sandy loam, 0 to 6 percent slopes

Map Unit Setting

National map unit symbol: 3603

Elevation: 3,500 to 6,500 feet

Mean annual precipitation: 13 to 17 inches

Mean annual air temperature: 46 to 48 degrees F

Frost-free period: 130 to 150 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Paoli and similar soils: 90 percent

Minor components: 10 percent

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

Description of Paoli

Setting

Landform: Alluvial fans

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous loamy alluvium

Typical profile

H1 - 0 to 15 inches: fine sandy loam

H2 - 15 to 45 inches: sandy loam

H3 - 45 to 60 inches: sandy loam

Properties and qualities

Slope: 0 to 6 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well 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: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 15 percent

Salinity, maximum in profile: Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water storage in profile: High (about 9.1 inches)

Interpretive groups

Land capability classification (irrigated): 3e

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: A

Ecological site: Sandy Plains (R067BY024CO)

Minor Components

Haverson

Percent of map unit: 8 percent

Fluvaquentic haplustolls

Percent of map unit: 2 percent

Landform: Terraces

Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 10, Sep 23, 2014

Weld County, Colorado, Northern Part

29—Haverson loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 35zd

Elevation: 3,500 to 6,000 feet

Mean annual precipitation: 12 to 17 inches

Mean annual air temperature: 46 to 54 degrees F

Frost-free period: 125 to 180 days

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

Map Unit Composition

Haverson and similar soils: 90 percent

Minor components: 10 percent

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

Description of Haverson

Setting

Landform: Stream terraces, flood plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Stratified, calcareous loamy alluvium

Typical profile

H1 - 0 to 12 inches: loam

H2 - 12 to 60 inches: stratified sandy loam to loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

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 in profile: 15 percent

Gypsum, maximum in profile: 1 percent

Salinity, maximum in profile: Nonsaline to moderately saline (0.0 to 8.0 mmhos/cm)

Available water storage in profile: High (about 9.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4c

Hydrologic Soil Group: B

Ecological site: Overflow (R067BY036CO)

Other vegetative classification: OVERFLOW (067BY036CO)

Minor Components

Nunn

Percent of map unit: 6 percent

Fluvaquentic haplustolls

Percent of map unit: 4 percent

Landform: Terraces

Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 10, Sep 23, 2014

Weld County, Colorado, Northern Part

31—Kim-Mitchell complex, 0 to 6 percent slopes

Map Unit Setting

National map unit symbol: 35zh

Elevation: 3,500 to 6,500 feet

Mean annual precipitation: 11 to 17 inches

Mean annual air temperature: 46 to 54 degrees F

Frost-free period: 120 to 160 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Kim and similar soils: 45 percent

Mitchell and similar soils: 40 percent

Minor components: 15 percent

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

Description of Kim

Setting

Landform: Alluvial fans, plains

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous loamy alluvium

Typical profile

H1 - 0 to 3 inches: loam

H2 - 3 to 7 inches: clay loam

H3 - 7 to 60 inches: loam

Properties and qualities

Slope: 0 to 6 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

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

Moderately high (0.20 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 15 percent

Salinity, maximum in profile: Nonsaline to slightly saline (0.0 to 4.0 mmhos/cm)

Available water storage in profile: High (about 9.7 inches)

Interpretive groups

Land capability classification (irrigated): 4e

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: C

Ecological site: Loamy Plains (R067BY002CO)

Description of Mitchell

Setting

Landform: Alluvial fans, plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous loamy alluvium

Typical profile

H1 - 0 to 7 inches: silt loam
H2 - 7 to 60 inches: silt loam

Properties and qualities

Slope: 0 to 6 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat):
Moderately high to high (0.57 to 5.95 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 15 percent
Available water storage in profile: High (about 10.8 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: A
Ecological site: Siltstone Plains (R067BY009CO)

Minor Components

Keota

Percent of map unit: 5 percent

Haverson

Percent of map unit: 5 percent

Thedalund

Percent of map unit: 5 percent

Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part
Survey Area Data: Version 10, Sep 23, 2014