Phillips County, Colorado

PaC—Platner loam, 3 to 5 percent slopes

Map Unit Setting

Elevation: 4,500 to 5,900 feet
Mean annual precipitation: 17 to 19 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 140 to 165 days

Map Unit Composition

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

Description of Platner

Setting

Landform: Hills, ridges, drainageways
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Thin silty eolian deposits over sand & gravel

Typical profile

H1 - 0 to 5 inches: loam
H2 - 5 to 12 inches: clay
H3 - 12 to 20 inches: clay loam
H4 - 20 to 60 inches: sandy clay loam

Properties and qualities

Slope: 3 to 5 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 10 percent
Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water storage in profile: Moderate (about 8.6 inches)

Interpretive groups

Farmland classification: Prime farmland if irrigated
Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Ecological site: Loamy Plains (R072XY001CO)

Minor Components

Ascalon

Percent of map unit: 10 percent

Eckley
Percent of map unit: 4 percent

Rock outcrop
Percent of map unit: 1 percent

Data Source Information

Soil Survey Area: Phillips County, Colorado
Survey Area Data: Version 8, Dec 23, 2013

Phillips County, Colorado

Ra—Rago and Kuma loams

Map Unit Setting

Elevation: 3,500 to 5,500 feet
Mean annual precipitation: 13 to 17 inches
Mean annual air temperature: 48 to 52 degrees F
Frost-free period: 140 to 160 days

Map Unit Composition

Rago and similar soils: 60 percent
Kuma and similar soils: 25 percent
Minor components: 15 percent

Description of Rago

Setting

Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous, limy loam silty and clayey

Typical profile

H1 - 0 to 9 inches: loam
H2 - 9 to 26 inches: silty clay loam
H3 - 26 to 60 inches: silty clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 10 percent
Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water storage in profile: High (about 11.9 inches)

Interpretive groups

Farmland classification: Prime farmland if irrigated
Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 2c
Hydrologic Soil Group: C
Ecological site: Loamy Plains (R072XY001CO)

Description of Kuma

Setting

Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Eolian deposits

Typical profile

H1 - 0 to 8 inches: loam
H2 - 8 to 37 inches: silty clay loam
H3 - 37 to 60 inches: loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 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: 10 percent
Gypsum, maximum in profile: 2 percent
Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water storage in profile: High (about 11.3 inches)

Interpretive groups

Farmland classification: Prime farmland if irrigated
Land capability classification (irrigated): 2e
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: B
Ecological site: Loamy Plains (R072XY001CO)

Minor Components

Platner

Percent of map unit: 5 percent

Richfield

Percent of map unit: 5 percent

Dawes

Percent of map unit: 3 percent

Aquic haplustolls

Percent of map unit: 2 percent
Landform: Depressions

Data Source Information

Soil Survey Area: Phillips County, Colorado
Survey Area Data: Version 8, Dec 23, 2013