

Rio Blanco County Area, Colorado

19—Chipeta-Walknolls complex, 5 to 15 percent slopes

Map Unit Setting

Elevation: 5,300 to 6,000 feet
Mean annual precipitation: 7 to 9 inches
Mean annual air temperature: 47 to 50 degrees F
Frost-free period: 105 to 135 days

Map Unit Composition

Chipeta and similar soils: 40 percent
Walknolls and similar soils: 35 percent

Description of Chipeta

Setting

Landform: Ridges, hills
Landform position (three-dimensional): Side slope, base slope, nose slope, head slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Gypsiferous residuum weathered from shale

Typical profile

H1 - 0 to 5 inches: moderately alkaline, silty clay loam
H2 - 0 to 5 inches: moderately alkaline, silty clay loam
H2 - 0 to 5 inches: moderately alkaline, silty clay loam
H2 - 0 to 5 inches: moderately alkaline, silty clay loam
H3 - 0 to 5 inches: , silty clay loam

Properties and qualities

Slope: 5 to 15 percent
Depth to restrictive feature: 5 to 20 inches to paralithic bedrock
Natural drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low (0.00 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: 10 percent
Salinity, maximum in profile: Slightly saline to moderately saline (8.0 to 16.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 15.0
Available water storage in profile: Low (about 3.8 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: D

Ecological site: Clayey Saltdesert (R034XY403CO)

Description of Walknolls

Setting

Landform: Hills

Landform position (three-dimensional): Head slope, nose slope, base slope, side slope

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Gypsiferous residuum weathered from shale

Typical profile

H1 - 0 to 4 inches: strongly alkaline, channery sandy loam

H2 - 0 to 4 inches: strongly alkaline, channery sandy loam

H2 - 0 to 4 inches: strongly alkaline, channery sandy loam

H3 - 0 to 4 inches: , channery sandy loam

Properties and qualities

Slope: 5 to 15 percent

Depth to restrictive feature: 10 to 20 inches to lithic bedrock

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: 15 percent

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

Available water storage in profile: Very low (about 1.5 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

Ecological site: Saltdesert Breaks (R034XY406CO)

Data Source Information

Soil Survey Area: Rio Blanco County Area, Colorado

Survey Area Data: Version 9, Dec 23, 2013

Rio Blanco County Area, Colorado

123—Tabyago-Cedarknoll association, 2 to 8 percent slopes

Map Unit Setting

Elevation: 6,700 to 7,300 feet
Mean annual precipitation: 12 to 16 inches
Mean annual air temperature: 42 to 45 degrees F
Frost-free period: 90 to 110 days

Map Unit Composition

Tabyago and similar soils: 50 percent
Cedarknoll and similar soils: 45 percent

Description of Tabyago

Setting

Landform: Plateaus
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Eolian deposits over residuum derived from sandstone and shale

Typical profile

A - 0 to 3 inches: moderately alkaline, loam
Bw - 3 to 11 inches: moderately alkaline, very channery loam
Bk - 11 to 16 inches: strongly alkaline, very channery sandy loam
Bky - 16 to 24 inches: strongly alkaline, very channery sandy loam
R - 24 to 28 inches: unweathered bedrock

Properties and qualities

Slope: 2 to 4 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Natural drainage class: Well 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: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum in profile: 20 percent
Gypsum, maximum in profile: 5 percent
Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 10.0
Available water storage in profile: Very low (about 1.9 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C
Ecological site: Upland Stony Loam (Wyoming Big Sagebrush)
(R034XY334UT)

Description of Cedarknoll

Setting

Landform: Hills

Landform position (two-dimensional): Shoulder, summit

Landform position (three-dimensional): Side slope, interfluve, crest

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Eolian deposits over residuum derived from
siltstone and sandstone

Typical profile

A - 0 to 2 inches: strongly alkaline, channery loam

Bw - 2 to 4 inches: strongly alkaline, channery loam

Bk - 4 to 14 inches: strongly alkaline, very channery loam

R - 14 to 18 inches: , unweathered bedrock

Properties and qualities

Slope: 2 to 8 percent

Depth to restrictive feature: 10 to 20 inches to lithic bedrock

Natural drainage class: Well drained

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

Moderately low to moderately high (0.06 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: 40 percent

Gypsum, maximum in profile: 3 percent

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

Sodium adsorption ratio, maximum in profile: 13.0

Available water storage in profile: Very low (about 1.3 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

Ecological site: Upland Shallow Loam (Pinyon-Utah Juniper)
(R034XY322UT)

Data Source Information

Soil Survey Area: Rio Blanco County Area, Colorado

Survey Area Data: Version 9, Dec 23, 2013