

Washington County, Colorado

71—Valent sand, rolling

Map Unit Setting

National map unit symbol: 2tczg

Elevation: 2,500 to 4,650 feet

Mean annual precipitation: 14 to 20 inches

Mean annual air temperature: 48 to 54 degrees F

Frost-free period: 135 to 160 days

Farmland classification: Not prime farmland

Map Unit Composition

Valent, rolling, and similar soils: 85 percent

Minor components: 15 percent

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

Description of Valent, Rolling

Setting

Landform: Hills, dunes

Landform position (two-dimensional): Backslope, shoulder, summit

Landform position (three-dimensional): Crest, side slope, nose slope, head slope

Down-slope shape: Linear, convex

Across-slope shape: Linear, convex

Parent material: Noncalcareous eolian sands

Typical profile

A - 0 to 4 inches: sand

C - 4 to 80 inches: sand

Properties and qualities

Slope: 9 to 24 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00 to 39.96 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 1 percent

Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)

Available water capacity: Very low (about 2.4 inches)

Interpretive groups

Land capability classification (irrigated): 4e

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: A

Ecological site: R067BY015CO - Deep Sand, R072XY109KS -
Rolling Sands
Hydric soil rating: No

Minor Components

Dailey

Percent of map unit: 10 percent
Landform: Interdunes
Landform position (two-dimensional): Toeslope, footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Concave
Ecological site: R067BY015CO - Deep Sand, R072XY111KS -
Sandy Plains
Hydric soil rating: No

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Percent of map unit: 3 percent
Landform: Dune slacks
Landform position (two-dimensional): Footslope, toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: R067BY029CO - Sandy Meadow, R072XY107KS -
Sandy Lowland
Hydric soil rating: No

Valent, eroded

Percent of map unit: 2 percent
Landform: Blowouts
Landform position (two-dimensional): Shoulder, backslope, summit
Landform position (three-dimensional): Crest, side slope, nose
slope, head slope
Down-slope shape: Concave
Across-slope shape: Concave
Ecological site: R067BY015CO - Deep Sand, R072XY109KS -
Rolling Sands
Hydric soil rating: No

Data Source Information

Soil Survey Area: Washington County, Colorado
Survey Area Data: Version 22, Jun 5, 2020