

Lincoln County, Colorado

194—Valent-Bijou loamy sands, 1 to 12 percent slopes

Map Unit Setting

National map unit symbol: 2t50f

Elevation: 4,000 to 5,500 feet

Mean annual precipitation: 13 to 16 inches

Mean annual air temperature: 46 to 54 degrees F

Frost-free period: 125 to 170 days

Farmland classification: Not prime farmland

Map Unit Composition

Valent, warm, and similar soils: 50 percent

Bijou, warm, and similar soils: 40 percent

Minor components: 10 percent

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

Description of Valent, Warm

Setting

Landform: Sand sheets

Landform position (two-dimensional): Backslope, shoulder

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

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Eolian sands

Typical profile

A - 0 to 7 inches: loamy sand

AC - 7 to 16 inches: loamy sand

C - 16 to 79 inches: sand

Properties and qualities

Slope: 1 to 15 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Excessively drained

Capacity of the most limiting layer to transmit water (Ksat): High to very high (5.95 to 19.99 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Maximum salinity: Nonsaline (0.1 to 0.2 mmhos/cm)

Sodium adsorption ratio, maximum: 0.1

Available water capacity: Low (about 4.1 inches)

Interpretive groups

Land capability classification (irrigated): 6e

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: A

Ecological site: R067BY015CO - Deep Sand

Forage suitability group: Not Suited (G067BW000CO)
Other vegetative classification: DEEP SANDS (067XY015CO_2),
Not Suited (G067BW000CO)
Hydric soil rating: No

Description of Bijou, Warm

Setting

Landform: Sand sheets
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Eolian sands

Typical profile

A - 0 to 4 inches: loamy sand
AB - 4 to 9 inches: loamy sand
Bt - 9 to 36 inches: sandy loam
BC - 36 to 50 inches: loamy sand
C - 50 to 79 inches: loamy sand

Properties and qualities

Slope: 1 to 9 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat excessively drained
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
Maximum salinity: Nonsaline (0.0 to 0.1 mmhos/cm)
Available water capacity: Low (about 5.5 inches)

Interpretive groups

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: A
Ecological site: R067BY024CO - Sandy Plains
Forage suitability group: Loamy, Dry (G067BW019CO)
Other vegetative classification: Loamy, Dry (G067BW019CO)
Hydric soil rating: No

Minor Components

Vona, warm

Percent of map unit: 5 percent
Landform: Sand sheets
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R067BY024CO - Sandy Plains
Other vegetative classification: Loamy, Dry (G067BW019CO)

Hydric soil rating: No

Olne1

Percent of map unit: 5 percent

Landform: Interfluves, hillslopes

Landform position (two-dimensional): Summit, backslope

Landform position (three-dimensional): Side slope

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: R067BY024CO - Sandy Plains

Other vegetative classification: Loamy, Dry (G067BW019CO)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lincoln County, Colorado

Survey Area Data: Version 18, Jun 10, 2020