

Lincoln County, Colorado

193—Valent loamy sand, 1 to 15 percent slopes, warm

Map Unit Setting

National map unit symbol: 2t50c

Elevation: 4,000 to 5,500 feet

Mean annual precipitation: 14 to 16 inches

Mean annual air temperature: 48 to 54 degrees F

Frost-free period: 125 to 170 days

Farmland classification: Not prime farmland

Map Unit Composition

Valent, warm, and similar soils: 85 percent

Minor components: 15 percent

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

Description of Valent, Warm

Setting

Landform: Ridges, hills

Landform position (two-dimensional): Summit, shoulder

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

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Eolian sands derived from sedimentary rock

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: Sandy, Dry (G067BW026CO)

Other vegetative classification: DEEP SANDS (067XY015CO_2),
Sandy, Dry (G067BW026CO)
Hydric soil rating: No

Minor Components

Bijou, warm

Percent of map unit: 5 percent
Landform: Hills, ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Convex, linear
Ecological site: R067BY024CO - Sandy Plains
Other vegetative classification: Not Suited (G067BW000CO)
Hydric soil rating: No

Olnest

Percent of map unit: 5 percent
Landform: Interfluves, hills
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: R067BY024CO - Sandy Plains
Other vegetative classification: Not Suited (G067BW000CO)
Hydric soil rating: No

Vona, warm

Percent of map unit: 5 percent
Landform: Hills, ridges
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Convex, linear
Ecological site: R067BY024CO - Sandy Plains
Other vegetative classification: Not Suited (G067BW000CO)
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lincoln County, Colorado
Survey Area Data: Version 18, Jun 10, 2020