

Lincoln County, Colorado

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

Map Unit Setting

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

Map Unit Composition

Valent, warm, and similar soils: 50 percent
Bijou, warm, and similar soils: 40 percent
Minor components: 10 percent

Description of Valent, Warm

Setting

Landform: Ridges, hills
Landform position (two-dimensional): Backslope, summit
Landform position (three-dimensional): Side slope, head slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Eolian sands derived from sedimentary rock

Typical profile

A - 0 to 7 inches: slightly alkaline, loamy sand
AC - 7 to 16 inches: slightly alkaline, loamy sand
C - 16 to 79 inches: neutral, sand

Properties and qualities

Slope: 1 to 15 percent
Depth to restrictive feature: More than 80 inches
Natural 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
Salinity, maximum in profile: Nonsaline (0.1 to 0.2 mmhos/cm)
Sodium adsorption ratio, maximum in profile: 0.1
Available water storage in profile: Low (about 4.1 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability classification (irrigated): 6e
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: A
Ecological site: Deep Sand (R067BY015CO)
Other vegetative classification: DEEP SANDS (067XY015CO_2)

Description of Bijou, Warm

Setting

Landform: Ridges, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Convex, linear
Parent material: Eolian deposits derived from sedimentary rock

Typical profile

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

Properties and qualities

Slope: 1 to 9 percent
Depth to restrictive feature: More than 80 inches
Natural 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
Salinity, maximum in profile: Nonsaline (0.0 to 0.1 mmhos/cm)
Available water storage in profile: Low (about 5.5 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: A
Ecological site: Sandy Plains (R067BY024CO)

Minor Components

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: Sandy Plains (R067BY024CO)
Other vegetative classification: Unnamed (G067BW019CO)

Olneest

Percent of map unit: 5 percent
Landform: Hills, interfluves
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Side slope, interfluve

Down-slope shape: Linear
Across-slope shape: Convex
Ecological site: Sandy Plains (R067BY024CO)
Other vegetative classification: Unnamed (G067BW019CO)

Data Source Information

Soil Survey Area: Lincoln County, Colorado
Survey Area Data: Version 11, Dec 23, 2013

Lincoln County, Colorado

109—Ascalon-Haxtun complex, 0 to 3 percent slopes

Map Unit Setting

Elevation: 4,400 to 6,000 feet
Mean annual precipitation: 14 to 16 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 135 to 155 days

Map Unit Composition

Ascalon and similar soils: 55 percent
Haxtun and similar soils: 30 percent
Minor components: 15 percent

Description of Ascalon

Setting

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

Typical profile

Ap - 0 to 4 inches: sandy loam
Bt - 4 to 15 inches: sandy clay loam
Bk - 15 to 60 inches: fine sandy 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: 15 percent
Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water storage in profile: Moderate (about 8.9 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3c
Hydrologic Soil Group: B
Ecological site: Sandy Plains (R067BY024CO)

Description of Haxtun

Setting

Landform: Drainageways
Down-slope shape: Linear

Across-slope shape: Linear
Parent material: Alluvium and/or eolian deposits

Typical profile

Ap - 0 to 4 inches: loamy sand
BA - 4 to 17 inches: sandy loam
Bt - 17 to 44 inches: sandy clay loam
Btkb - 44 to 60 inches: silt 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 (0.20 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: 15 percent
Gypsum, maximum in profile: 2 percent
Salinity, maximum in profile: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water storage in profile: Moderate (about 8.9 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: B
Ecological site: Sandy Plains (R067BY024CO)

Minor Components

Olnest

Percent of map unit: 3 percent
Landform: Plains
Other vegetative classification: SANDY PLAINS (067XY024CO_1)

Otero

Percent of map unit: 3 percent
Landform: Hills
Landform position (three-dimensional): Side slope
Other vegetative classification: SANDY PLAINS (067XY024CO_1)

Pleasant

Percent of map unit: 3 percent
Landform: Depressions
Ecological site: Plains Swale (R067XY010CO)

Platner

Percent of map unit: 3 percent
Landform: Plains
Ecological site: Loamy Plains (R067BY002CO)
Other vegetative classification: LOAMY PLAINS (067XY002CO_1)

Vona

Percent of map unit: 3 percent

Landform: Hills

Landform position (three-dimensional): Side slope

Other vegetative classification: SANDY PLAINS (067XY024CO_1)

Data Source Information

Soil Survey Area: Lincoln County, Colorado

Survey Area Data: Version 11, Dec 23, 2013