

Lincoln County, Colorado

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

Map Unit Setting

National map unit symbol: 3j8d

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

Farmland classification: Not prime farmland

Map Unit Composition

Ascalon and similar soils: 55 percent

Haxtun and similar soils: 30 percent

Minor components: 15 percent

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

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

Runoff class: Low

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 to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water storage in profile: Moderate (about 8.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3c

Hydrologic Soil Group: B

Ecological site: Sandy Plains (R067BY024CO)

Hydric soil rating: No

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

Runoff class: Low

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 to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water storage in profile: Moderate (about 8.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: B

Ecological site: Sandy Plains (R067BY024CO)

Hydric soil rating: No

Minor Components

Pleasant

Percent of map unit: 3 percent

Landform: Depressions

Ecological site: Plains Swale (R067XY010CO)

Hydric soil rating: Yes

Platner

Percent of map unit: 3 percent

Landform: Plains

Ecological site: Loamy Plains (R067BY002CO)

Other vegetative classification: LOAMY PLAINS (067XY002CO_1)

Hydric soil rating: No

Vona

Percent of map unit: 3 percent

Landform: Hills

Landform position (three-dimensional): Side slope

Ecological site: Sandy Plains (R067BY024CO)

Other vegetative classification: SANDY PLAINS (067XY024CO_1)

Hydric soil rating: No

Olneest

Percent of map unit: 3 percent

Landform: Plains

Ecological site: Sandy Plains (R067BY024CO)

Other vegetative classification: SANDY PLAINS (067XY024CO_1)

Hydric soil rating: No

Otero

Percent of map unit: 3 percent

Landform: Hills

Landform position (three-dimensional): Side slope

Ecological site: Sandy Plains (R067BY024CO)

Other vegetative classification: SANDY PLAINS (067XY024CO_1)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lincoln County, Colorado

Survey Area Data: Version 15, Oct 10, 2017

Lincoln County, Colorado

138—Haxtun-Olnest loamy sands, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 3jh5

Elevation: 4,400 to 6,000 feet

Mean annual precipitation: 11 to 16 inches

Mean annual air temperature: 46 to 52 degrees F

Frost-free period: 135 to 155 days

Farmland classification: Not prime farmland

Map Unit Composition

Haxtun and similar soils: 55 percent

Olnest and similar soils: 30 percent

Minor components: 15 percent

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

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

Btkyb - 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

Runoff class: Low

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 to very slightly saline (0.0 to 2.0 mmhos/cm)

Available water storage in profile: Moderate (about 8.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 3e

Hydrologic Soil Group: B
Ecological site: Sandy Plains (R067BY024CO)
Hydric soil rating: No

Description of Olnest

Setting

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

Typical profile

Ap - 0 to 8 inches: loamy sand
Bt - 8 to 38 inches: sandy clay loam
Bk - 38 to 60 inches: loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Natural drainage class: Well drained
Runoff class: Low
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
Available water storage in profile: Moderate (about 7.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: B
Ecological site: Sandy Plains (R067BY024CO)
Hydric soil rating: No

Minor Components

Apishapa

Percent of map unit: 5 percent
Landform: Depressions
Ecological site: Plains Swale (R067XY010CO)
Hydric soil rating: Yes

Ascalon

Percent of map unit: 5 percent
Landform: Plains
Ecological site: Sandy Plains (R067BY024CO)
Other vegetative classification: SANDY PLAINS (067XY024CO_1)
Hydric soil rating: No

Otero

Percent of map unit: 3 percent
Landform: Hills

Landform position (three-dimensional): Side slope
Ecological site: Sandy Plains (R067BY024CO)
Other vegetative classification: SANDY PLAINS (067XY024CO_1)
Hydric soil rating: No

Platner

Percent of map unit: 2 percent
Landform: Plains
Ecological site: Loamy Plains (R067BY002CO)
Other vegetative classification: LOAMY PLAINS (067XY002CO_1)
Hydric soil rating: No

Data Source Information

Soil Survey Area: Lincoln County, Colorado
Survey Area Data: Version 15, Oct 10, 2017

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

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

Land capability classification (irrigated): 6e

Land capability classification (nonirrigated): 6e

Hydrologic Soil Group: A

Ecological site: Deep Sand (R067BY015CO)

Forage suitability group: Not Suited (G067BW000CO)
Other vegetative classification: DEEP SANDS (067XY015CO_2)
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
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

Land capability classification (irrigated): 4e
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: A
Ecological site: Sandy Plains (R067BY024CO)
Forage suitability group: 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: Sandy Plains (R067BY024CO)
Hydric soil rating: No

Olnest

Percent of map unit: 5 percent

Landform: Hillslopes, interfluves

Landform position (two-dimensional): Backslope, summit

Landform position (three-dimensional): Side slope

Down-slope shape: Linear

Across-slope shape: Linear

Ecological site: Sandy Plains (R067BY024CO)

Hydric soil rating: No

Data Source Information

Soil Survey Area: Lincoln County, Colorado

Survey Area Data: Version 15, Oct 10, 2017