

## 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

**Olnest**

*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