

## Lincoln County, Colorado

### 173—Platner-Ascalon complex, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2tlpc

*Elevation:* 5,000 to 5,900 feet

*Mean annual precipitation:* 14 to 17 inches

*Mean annual air temperature:* 48 to 54 degrees F

*Frost-free period:* 120 to 170 days

*Farmland classification:* Prime farmland if irrigated

#### Map Unit Composition

*Platner and similar soils:* 50 percent

*Ascalon and similar soils:* 35 percent

*Minor components:* 15 percent

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

#### Description of Platner

##### Setting

*Landform:* Interfluves

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Mixed eolian deposits over calcareous tertiary alluvium derived from igneous, metamorphic and sedimentary rock

##### Typical profile

*Ap - 0 to 6 inches:* loam

*Bt1 - 6 to 11 inches:* clay

*Bt2 - 11 to 20 inches:* clay

*Bk1 - 20 to 27 inches:* loam

*Bk2 - 27 to 37 inches:* sandy clay loam

*C - 37 to 80 inches:* sandy clay loam

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Well drained

*Runoff class:* Medium

*Capacity of the most limiting layer to transmit water (Ksat):*

Moderately low to moderately high (0.06 to 0.20 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 (0.1 to 2.0 mmhos/cm)

*Available water storage in profile:* Moderate (about 8.1 inches)

### **Interpretive groups**

*Land capability classification (irrigated):* 3s

*Land capability classification (nonirrigated):* 4c

*Hydrologic Soil Group:* C

*Ecological site:* Loamy Plains, LRU's A & B 10-14 Inches, P.Z.  
(R069XY006CO), Loamy Plains (R067BY002CO)

*Hydric soil rating:* No

### **Description of Ascalon**

#### **Setting**

*Landform:* Interfluves

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Wind-reworked alluvium and/or calcareous sandy  
eolian deposits

#### **Typical profile**

*Ap - 0 to 6 inches:* sandy loam

*Bt1 - 6 to 12 inches:* sandy clay loam

*Bt2 - 12 to 19 inches:* sandy clay loam

*Bk - 19 to 35 inches:* sandy clay loam

*C - 35 to 80 inches:* 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 (0.20 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:* 10 percent

*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.1  
to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum in profile:* 1.0

*Available water storage in profile:* Moderate (about 6.8 inches)

### **Interpretive groups**

*Land capability classification (irrigated):* 3e

*Land capability classification (nonirrigated):* 4c

*Hydrologic Soil Group:* B

*Ecological site:* Sandy Plains LRU's A & B (R069XY026CO),  
Sandy Plains (R067BY024CO)

*Hydric soil rating:* No

### **Minor Components**

#### **Otero**

*Percent of map unit:* 8 percent

*Landform:* Interfluves

*Landform position (two-dimensional):* Footslope  
*Landform position (three-dimensional):* Base slope  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* Sandy Plains LRU's A & B (R069XY026CO),  
Sandy Plains (R067BY024CO)  
*Hydric soil rating:* No

**Pleasant**

*Percent of map unit:* 7 percent  
*Landform:* Closed depressions  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Ecological site:* Plains Swale (R067BY010CO)  
*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Lincoln County, Colorado  
Survey Area Data: Version 14, Sep 22, 2016