

## Weld County, Colorado, Northern Part

### 54—Platner loam, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2tln0  
*Elevation:* 4,000 to 4,930 feet  
*Mean annual precipitation:* 14 to 17 inches  
*Mean annual air temperature:* 46 to 50 degrees F  
*Frost-free period:* 135 to 160 days  
*Farmland classification:* Prime farmland if irrigated

#### Map Unit Composition

*Platner and similar soils:* 85 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Platner

##### Setting

*Landform:* Interfluves  
*Landform position (two-dimensional):* Summit  
*Landform position (three-dimensional):* Interfluve  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Mixed eolian deposits over tertiary aged 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 (0.0 to 1.0 mmhos/cm)  
*Available water storage in profile:* Moderate (about 8.1 inches)

### **Interpretive groups**

*Land capability classification (irrigated):* 3s  
*Land capability classification (nonirrigated):* 4s  
*Hydrologic Soil Group:* C  
*Ecological site:* Loamy plains (R067BY002CO)

### **Minor Components**

#### **Ascalon**

*Percent of map unit:* 10 percent  
*Landform:* Interfluves  
*Landform position (two-dimensional):* Summit, shoulder  
*Landform position (three-dimensional):* Interfluve  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* Loamy plains (R067BY002CO)

#### **Rago, rarely flooded**

*Percent of map unit:* 4 percent  
*Landform:* Drainageways  
*Landform position (two-dimensional):* Toeslope  
*Landform position (three-dimensional):* Base slope, head slope  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave  
*Ecological site:* Overflow (R067BY036CO)

#### **Rago, ponded**

*Percent of map unit:* 1 percent  
*Landform:* Playas  
*Landform position (two-dimensional):* Summit  
*Landform position (three-dimensional):* Interfluve  
*Down-slope shape:* Concave  
*Across-slope shape:* Concave  
*Ecological site:* Plains swale (R067BY010CO)

## **Data Source Information**

Soil Survey Area: Weld County, Colorado, Northern Part  
Survey Area Data: Version 10, Sep 23, 2014