

## 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)*

*Hydric soil rating: No*

### **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)*

*Hydric soil rating: No*

#### **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)*

*Hydric soil rating: No*

#### **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: Closed Upland Depression (R067BY010CO)*

*Hydric soil rating: No*

## **Data Source Information**

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 13, Sep 10, 2018