

## Weld County, Colorado, Southern Part

### 10—Ellicott-Ellicott sandy-skeletal complex, 0 to 3 percent slopes, rarely flooded

#### Map Unit Setting

*National map unit symbol:* 2xsth

*Elevation:* 3,950 to 5,960 feet

*Mean annual precipitation:* 13 to 17 inches

*Mean annual air temperature:* 50 to 54 degrees F

*Frost-free period:* 135 to 165 days

*Farmland classification:* Prime farmland if irrigated and the product of I (soil erodibility) x C (climate factor) does not exceed 60

#### Map Unit Composition

*Ellicott, rarely flooded, and similar soils:* 65 percent

*Ellicott sandy-skeletal, rarely flooded, and similar soils:* 25 percent

*Minor components:* 10 percent

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

#### Description of Ellicott, Rarely Flooded

##### Setting

*Landform:* Flood plains on intermittent streams, drainageways

*Down-slope shape:* Linear

*Across-slope shape:* Concave

*Parent material:* Noncalcareous, stratified sandy alluvium

##### Typical profile

*A - 0 to 4 inches:* sand

*AC - 4 to 13 inches:* sand

*C1 - 13 to 30 inches:* sand

*C2 - 30 to 44 inches:* sand

*C3 - 44 to 80 inches:* coarse sand

##### Properties and qualities

*Slope:* 0 to 3 percent

*Depth to restrictive feature:* More than 80 inches

*Drainage class:* Excessively drained

*Runoff class:* Negligible

*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (13.00 to 39.96 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* Rare

*Frequency of ponding:* None

*Maximum salinity:* Nonsaline to very slightly saline (0.1 to 2.0 mmhos/cm)

*Available water supply, 0 to 60 inches:* Very low (about 2.1 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 4e

*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* A  
*Ecological site:* R067BY031CO - Sandy Bottomland  
*Hydric soil rating:* No

### **Description of Ellicott Sandy-skeletal, Rarely Flooded**

#### **Setting**

*Landform:* Channels on intermittent streams, channels on drainageways  
*Down-slope shape:* Linear  
*Across-slope shape:* Concave, linear  
*Parent material:* Noncalcareous, stratified sandy alluvium

#### **Typical profile**

*A - 0 to 4 inches:* very gravelly coarse sand  
*AC - 4 to 13 inches:* very gravelly sand  
*C1 - 13 to 30 inches:* very gravelly sand  
*C2 - 30 to 44 inches:* very gravelly sand  
*C3 - 44 to 80 inches:* very gravelly coarse sand

#### **Properties and qualities**

*Slope:* 0 to 3 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Excessively drained  
*Runoff class:* Negligible  
*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (13.00 to 39.96 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* Rare  
*Frequency of ponding:* None  
*Maximum salinity:* Nonsaline to very slightly saline (0.1 to 2.0 mmhos/cm)  
*Available water supply, 0 to 60 inches:* Very low (about 1.2 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* 4s  
*Land capability classification (nonirrigated):* 8s  
*Hydrologic Soil Group:* A  
*Ecological site:* R067BY031CO - Sandy Bottomland  
*Hydric soil rating:* No

### **Minor Components**

#### **Haverson**

*Percent of map unit:* 10 percent  
*Landform:* Terraces  
*Landform position (three-dimensional):* Tread  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* R067BY036CO - Overflow

*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Weld County, Colorado, Southern Part

Survey Area Data: Version 20, Aug 31, 2021