

## Lincoln County, Colorado

### 179—Sampson loam, 0 to 2 percent slopes, rarely flooded

#### Map Unit Setting

*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

#### Map Unit Composition

*Sampson, rarely flooded, and similar soils:* 90 percent  
*Minor components:* 10 percent

#### Description of Sampson, Rarely Flooded

##### Setting

*Landform:* Flood plains  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Alluvium

##### Properties and qualities

*Slope:* 0 to 2 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*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:* Rare  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 15 percent  
*Maximum salinity:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Available water capacity:* High (about 10.6 inches)

##### Interpretive groups

*Farmland classification:* Prime farmland if irrigated  
*Land capability (nonirrigated):* 3c  
*Hydrologic Soil Group:* B  
*Ecological site:* Overflow (R067BY036CO)

##### Typical profile

*0 to 7 inches:* Loam  
*7 to 36 inches:* Clay loam  
*36 to 60 inches:* Loam

#### Minor Components

##### Apishapa, rarely ponded

*Percent of map unit:* 4 percent  
*Landform:* Depressions  
*Ecological site:* Plains Swale (R067XY010CO)

**Fort collins**

*Percent of map unit:* 3 percent

*Landform:* Plains

*Ecological site:* Loamy Plains (R067BY002CO)

*Other vegetative classification:* LOAMY PLAINS (067XY002CO\_1)

**Vona**

*Percent of map unit:* 3 percent

*Landform:* Hills

*Landform position (three-dimensional):* Side slope

*Other vegetative classification:* SANDY PLAINS (067XY024CO\_1)

## Data Source Information

Soil Survey Area: Lincoln County, Colorado

Survey Area Data: Version 11, Dec 23, 2013