

## Logan County, Colorado

### 96—Rosebud-Escabosa loams, 3 to 5 percent slopes

#### Map Unit Setting

*National map unit symbol:* 35f2

*Elevation:* 3,600 to 4,100 feet

*Mean annual precipitation:* 17 to 19 inches

*Mean annual air temperature:* 46 to 48 degrees F

*Frost-free period:* 120 to 150 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Rosebud and similar soils:* 50 percent

*Escabosa and similar soils:* 30 percent

*Minor components:* 20 percent

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

#### Description of Rosebud

##### Setting

*Landform:* Ridges, upland slopes

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Calcareous loamy alluvium and/or eolian deposits over cemented calcareous sandstone

##### Typical profile

*H1 - 0 to 5 inches:* loam

*H2 - 5 to 18 inches:* loam

*H3 - 18 to 33 inches:* loam

*H4 - 33 to 37 inches:* weathered bedrock

##### Properties and qualities

*Slope:* 3 to 5 percent

*Depth to restrictive feature:* 20 to 40 inches to paralithic bedrock

*Natural drainage class:* Well drained

*Runoff class:* Low

*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 (0.0 to 2.0 mmhos/cm)

*Available water storage in profile:* Low (about 5.3 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 3c

*Land capability classification (nonirrigated):* 3c

*Hydrologic Soil Group:* C  
*Ecological site:* Loamy Plains (R067BY002CO)  
*Hydric soil rating:* No

## **Description of Escabosa**

### **Setting**

*Landform:* Ridges, flats  
*Landform position (three-dimensional):* Crest  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Calcareous loamy alluvium and/or calcareous  
loamy eolian deposits over cemented calcareous sandstone

### **Typical profile**

*H1 - 0 to 10 inches:* loam  
*H2 - 10 to 22 inches:* loam  
*H3 - 22 to 26 inches:* unweathered bedrock

### **Properties and qualities**

*Slope:* 3 to 5 percent  
*Depth to restrictive feature:* 20 to 40 inches to lithic bedrock  
*Natural drainage class:* Well drained  
*Runoff class:* Low  
*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:* 40 percent  
*Available water storage in profile:* Low (about 3.5 inches)

### **Interpretive groups**

*Land capability classification (irrigated):* 4c  
*Land capability classification (nonirrigated):* 4c  
*Hydrologic Soil Group:* C  
*Ecological site:* Loamy Plains (R067BY002CO)  
*Hydric soil rating:* No

## **Minor Components**

### **Wages**

*Percent of map unit:* 12 percent  
*Hydric soil rating:* No

### **Canyon**

*Percent of map unit:* 8 percent  
*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Logan County, Colorado  
Survey Area Data: Version 12, Oct 10, 2017