

# Map Unit Description

Las Animas County Area, Colorado, Parts of Huerfano and Las Animas Counties

## GA Gulnare-Allens Park complex, 5 to 35 percent slopes

### Setting

Landscape: Foothills  
Elevation: 6800 to 8500 feet  
Mean annual precipitation: 17 to 22 inches  
Mean annual air temperature: 43 to 46 degrees F  
Frost-free period: 80 to 100 days

### Composition

Gulnare and similar soils: 50 percent  
Allens park and similar soils: 35 percent  
Minor components: 15 percent

### Description of Gulnare

#### Setting

Landform: Hills  
Landform position (two-dimensional): Backslope, shoulder, summit  
Down-slope shape: Convex  
Across-slope shape: Linear  
Parent material: Slope alluvium and residuum weathered from sandstone

#### Properties and Qualities

Slope: 5 to 35 percent  
Surface area covered with stones and boulders: 8.0 percent  
Depth to restrictive feature: 10 to 20 inches to Lithic bedrock  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately low or moderately high (0.06 to 0.20 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 0 percent  
Gypsum maximum: 0 percent  
Sodium adsorption ratio maximum: 2.0  
Available water capacity: Very low (about 2.6 inches)

#### Interpretive Groups

Land capability (non irrigated): 7e  
Ecological site: *Pinus ponderosa-Juniperus scop* (F048AY011NM)  
Other vegetative classification: ponderosa pine/mountain muhly (Pipo/Mumo)

#### Typical Profile

0 to 2 inches: slightly decomposed plant material  
2 to 5 inches: loam  
5 to 13 inches: gravelly clay loam  
13 to 18 inches: gravelly sandy clay loam  
18 to 19 inches: bedrock  
19 to 60 inches: bedrock

### Description of Allens park

#### Setting

Landform: Hills  
Landform position (two-dimensional): Backslope, footslope, summit  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Slope alluvium and residuum weathered from sandstone

#### Properties and Qualities

Slope: 5 to 25 percent  
Surface area covered with stones and boulders: 1.0 percent  
Depth to restrictive feature: 20 to 40 inches to Lithic bedrock  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately low or moderately high (0.06 to 0.20 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 0 percent

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Gypsum maximum: 0 percent  
Available water capacity: Low (about 3.1 inches)

### Interpretive Groups

Land capability (non irrigated): 6e  
Ecological site: *Pinus ponderosa-Juniperus scop* (F048AY011NM)  
Other vegetative classification: ponderosa pine/mountain muhly (Pipo/Mumo)

### Typical Profile

0 to 5 inches: sandy loam  
5 to 10 inches: sandy loam  
10 to 16 inches: sandy clay loam  
16 to 20 inches: sandy clay loam  
20 to 24 inches: gravelly sandy clay loam  
24 to 28 inches: bedrock  
28 to 60 inches: bedrock

### Minor Components

#### Stout soils

Percent of map unit: 10 percent  
Landform: Hills  
Landform position (two-dimensional): Shoulder  
Down-slope shape: Linear  
Across-slope shape: Linear  
Ecological site: *Pinus ponderosa-Juniperus scop* (F048AY011NM)  
Other vegetative classification: ponderosa pine/mountain muhly (Pipo/Mumo)

#### Littlepine soils

Percent of map unit: 5 percent  
Landform: Fan remnants, hills  
Landform position (two-dimensional): Backslope, footslope  
Down-slope shape: Linear  
Across-slope shape: Convex  
Ecological site: *Pinus ponderosa-Juniperus scop* (F048AY011NM)  
Other vegetative classification: ponderosa pine/mountain muhly (Pipo/Mumo)