

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

### DaE—Dalerose-Rock outcrop complex, 3 to 25 percent slopes

#### Map Unit Setting

*National map unit symbol:* 3jly  
*Elevation:* 5,000 to 6,000 feet  
*Mean annual precipitation:* 14 to 16 inches  
*Mean annual air temperature:* 50 to 53 degrees F  
*Frost-free period:* 125 to 155 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Dalerose and similar soils:* 75 percent  
*Rock outcrop:* 15 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Dalerose

##### Setting

*Landform:* Scarps  
*Landform position (two-dimensional):* Summit, backslope  
*Landform position (three-dimensional):* Head slope  
*Down-slope shape:* Convex  
*Across-slope shape:* Convex  
*Parent material:* Slope alluvium and residuum weathered from sandstone

##### Typical profile

*A - 0 to 5 inches:* gravelly fine sandy loam  
*Bk - 5 to 10 inches:* gravelly loam  
*R - 10 to 60 inches:* bedrock

##### Properties and qualities

*Slope:* 3 to 25 percent  
*Depth to restrictive feature:* 6 to 20 inches to lithic bedrock  
*Drainage class:* Well drained  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to moderately high (0.01 to 0.20 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 15 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Available water supply, 0 to 60 inches:* Very low (about 1.0 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 7s  
*Hydrologic Soil Group:* D  
*Ecological site:* R067BY056CO - Sandstone Breaks  
*Forage suitability group:* Needs Field Review (G070XW050CO)

## Custom Soil Resource Report

*Other vegetative classification:* Sandstone Breaks #56 (067XY056CO\_2), Needs  
Field Review (G070XW050CO)  
*Hydric soil rating:* No

### Description of Rock Outcrop

#### Setting

*Landform:* Scarps  
*Parent material:* Sandstone

#### Typical profile

*R - 0 to 60 inches:* bedrock

#### Properties and qualities

*Slope:* 3 to 25 percent  
*Depth to restrictive feature:* 0 inches to lithic bedrock  
*Runoff class:* Very high  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately  
high (0.00 to 0.20 in/hr)

#### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 8s  
*Hydric soil rating:* No

### Minor Components

#### Chacuaco

*Percent of map unit:* 10 percent  
*Landform:* Interfluves, ridges  
*Landform position (two-dimensional):* Summit, shoulder  
*Landform position (three-dimensional):* Rise  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* R067BY002CO - Loamy Plains  
*Other vegetative classification:* Loamy, Dry (G070XW019CO), Loamy Plains #2  
(067XY002CO\_2)  
*Hydric soil rating:* No

## SG—Ovmesa-Romound complex, 2 to 30 percent slopes

### Map Unit Setting

*National map unit symbol:* 3jpv  
*Elevation:* 4,500 to 5,000 feet  
*Mean annual precipitation:* 12 to 14 inches  
*Mean annual air temperature:* 50 to 54 degrees F  
*Frost-free period:* 135 to 155 days  
*Farmland classification:* Not prime farmland

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

### VT—Villedry-Travessilla complex, 1 to 8 percent slopes

#### Map Unit Setting

*National map unit symbol:* 3jql  
*Elevation:* 4,500 to 6,000 feet  
*Mean annual precipitation:* 12 to 14 inches  
*Mean annual air temperature:* 50 to 53 degrees F  
*Frost-free period:* 130 to 155 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Villedry and similar soils:* 50 percent  
*Travessilla and similar soils:* 40 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Villedry

##### Setting

*Landform:* Interfluves  
*Landform position (two-dimensional):* Summit  
*Landform position (three-dimensional):* Rise  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Loess over residuum weathered from sandstone

##### Typical profile

*A - 0 to 4 inches:* silt loam  
*BA - 4 to 7 inches:* silt loam  
*Bt - 7 to 15 inches:* silty clay loam  
*Btk - 15 to 25 inches:* silty clay loam  
*Bk1 - 25 to 33 inches:* clay loam  
*2Bk2 - 33 to 38 inches:* gravelly loam  
*R - 38 to 60 inches:* bedrock

##### Properties and qualities

*Slope:* 1 to 8 percent  
*Depth to restrictive feature:* 20 to 40 inches to lithic bedrock  
*Drainage class:* Well drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately high (0.00 to 0.20 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 40 percent  
*Gypsum, maximum content:* 2 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Sodium adsorption ratio, maximum:* 5.0

*Available water supply, 0 to 60 inches:* Moderate (about 6.6 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* 3e

*Land capability classification (nonirrigated):* 6c

*Hydrologic Soil Group:* C

*Ecological site:* R069XY006CO - Loamy Plains, LRU's A and B  
10-14 Inches, P.Z.

*Forage suitability group:* Loamy (G069XW017CO)

*Other vegetative classification:* Loamy (G069XW017CO), Loamy  
Plains #6 (069XY006CO\_2)

*Hydric soil rating:* No

#### **Description of Travessilla**

##### **Setting**

*Landform:* Scarps

*Landform position (two-dimensional):* Summit, shoulder

*Landform position (three-dimensional):* Crest

*Down-slope shape:* Convex

*Across-slope shape:* Linear

*Parent material:* Slope alluvium and/or residuum weathered from  
sandstone

##### **Typical profile**

*A - 0 to 5 inches:* sandy loam

*AC - 5 to 11 inches:* sandy loam

*Bk - 11 to 14 inches:* sandy loam

*R - 14 to 60 inches:* bedrock

##### **Properties and qualities**

*Slope:* 1 to 8 percent

*Depth to restrictive feature:* 6 to 20 inches to lithic bedrock

*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 content:* 15 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)

*Available water supply, 0 to 60 inches:* Very low (about 1.6 inches)

##### **Interpretive groups**

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 6s

*Hydrologic Soil Group:* D

*Ecological site:* R069XY053CO - Sandstone Breaks LRU's A and B

*Forage suitability group:* Needs Field Review (G069XW050CO)

*Other vegetative classification:* Needs Field Review (G069XW050CO), Sandstone Breaks #53 (069XY053CO\_2)

*Hydric soil rating:* No

### **Minor Components**

#### **Almagre**

*Percent of map unit:* 8 percent

*Landform:* Interfluves

*Landform position (two-dimensional):* Summit, footslope

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Ecological site:* R069XY006CO - Loamy Plains, LRU's A and B  
10-14 Inches, P.Z.

*Other vegetative classification:* Loamy (G069XW017CO), Loamy Plains #6 (069XY006CO\_2)

*Hydric soil rating:* No

#### **Rock outcrop**

*Percent of map unit:* 2 percent

*Landform:* Scarps

*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Las Animas County Area, Colorado, Parts of Huerfano and Las Animas Counties

Survey Area Data: Version 24, Aug 31, 2021

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

### WC—Plughat-Villegreen complex, 1 to 4 percent slopes

#### Map Unit Setting

*National map unit symbol:* 2tqxn  
*Elevation:* 4,900 to 5,800 feet  
*Mean annual precipitation:* 14 to 16 inches  
*Mean annual air temperature:* 50 to 54 degrees F  
*Frost-free period:* 130 to 170 days  
*Farmland classification:* Prime farmland if irrigated

#### Map Unit Composition

*Plughat and similar soils:* 43 percent  
*Villegreen and similar soils:* 41 percent  
*Minor components:* 16 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Plughat

##### Setting

*Landform:* Interfluves  
*Landform position (two-dimensional):* Shoulder, summit  
*Landform position (three-dimensional):* Interfluve  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Loess over residuum weathered from sandstone

##### Typical profile

*A - 0 to 3 inches:* silt loam  
*Bt1 - 3 to 6 inches:* silty clay loam  
*Bt2 - 6 to 13 inches:* silty clay loam  
*Btk - 13 to 27 inches:* silty clay loam  
*Bk1 - 27 to 34 inches:* silt loam  
*2Bk2 - 34 to 48 inches:* loam  
*2R - 48 to 79 inches:* bedrock

##### Properties and qualities

*Slope:* 1 to 4 percent  
*Depth to restrictive feature:* 43 to 51 inches to lithic bedrock  
*Drainage class:* Well drained  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low  
to moderately high (0.00 to 0.20 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 40 percent  
*Gypsum, maximum content:* 2 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.5 to 3.0 mmhos/cm)

*Available water capacity:* High (about 9.6 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* 4e

*Land capability classification (nonirrigated):* 4e

*Hydrologic Soil Group:* C

*Ecological site:* R067BY002CO - Loamy Plains

*Hydric soil rating:* No

#### **Description of Villegreen**

##### **Setting**

*Landform:* Interfluves

*Landform position (two-dimensional):* Shoulder, summit

*Landform position (three-dimensional):* Interfluve

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Loess over residuum weathered from sandstone

##### **Typical profile**

*A - 0 to 6 inches:* loam

*BA - 6 to 9 inches:* silty clay loam

*Bt - 9 to 15 inches:* silty clay loam

*Btk - 15 to 24 inches:* silty clay loam

*2Bk - 24 to 32 inches:* channery loam

*2R - 32 to 79 inches:* bedrock

##### **Properties and qualities**

*Slope:* 1 to 4 percent

*Depth to restrictive feature:* 30 to 33 inches to lithic bedrock

*Drainage class:* Well drained

*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately high (0.00 to 0.20 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Calcium carbonate, maximum content:* 30 percent

*Gypsum, maximum content:* 2 percent

*Maximum salinity:* Nonsaline to very slightly saline (0.5 to 3.0 mmhos/cm)

*Available water capacity:* Low (about 6.0 inches)

##### **Interpretive groups**

*Land capability classification (irrigated):* 3e

*Land capability classification (nonirrigated):* 4c

*Hydrologic Soil Group:* C

*Ecological site:* R067BY002CO - Loamy Plains

*Hydric soil rating:* No

## Minor Components

### Baca

*Percent of map unit:* 5 percent  
*Landform:* Interfluves  
*Landform position (two-dimensional):* Summit  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* R067BY002CO - Loamy Plains  
*Hydric soil rating:* No

### Wiley

*Percent of map unit:* 5 percent  
*Landform:* Interfluves  
*Landform position (two-dimensional):* Summit  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* R067BY002CO - Loamy Plains  
*Hydric soil rating:* No

### Boxcanyon

*Percent of map unit:* 5 percent  
*Landform:* Interfluves  
*Landform position (two-dimensional):* Toeslope  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Ecological site:* R067BY002CO - Loamy Plains  
*Hydric soil rating:* No

### Rock outcrop

*Percent of map unit:* 1 percent  
*Landform:* Scarps  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear

## Data Source Information

Soil Survey Area: Las Animas County Area, Colorado, Parts of Huerfano and Las Animas Counties  
Survey Area Data: Version 23, Jun 5, 2020