

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

MyD—Midway clay loam, 3 to 15 percent slopes, gullied

Map Unit Setting

National map unit symbol: 3jpz
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

Midway and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Midway

Setting

Landform: Pediments, hills
Landform position (two-dimensional): Backslope, shoulder, summit
Landform position (three-dimensional): Head slope, side slope, rise
Down-slope shape: Linear
Across-slope shape: Convex
Parent material: Slope alluvium over residuum weathered from shale

Typical profile

A - 0 to 3 inches: clay loam
AC - 3 to 8 inches: silty clay
C - 8 to 14 inches: silty clay
Cr - 14 to 24 inches: bedrock

Properties and qualities

Slope: 3 to 15 percent
Depth to restrictive feature: 10 to 20 inches to paralithic bedrock
Drainage class: Well drained
Runoff class: High
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
Gypsum, maximum content: 15 percent
Maximum salinity: Very slightly saline to moderately saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio, maximum: 15.0

Available water capacity: Very low (about 2.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: D

Ecological site: R069XY046CO - Shaly Plains LRU's A & B

Forage suitability group: Needs Field Review (G069XW050CO)

Other vegetative classification: Needs Field Review

(G069XW050CO), Shaly Plains #46 (069XY046CO_2)

Hydric soil rating: No

Minor Components

Razor

Percent of map unit: 9 percent

Landform: Hills, pediments

Landform position (two-dimensional): Backslope, footslope

Landform position (three-dimensional): Head slope, side slope, rise

Down-slope shape: Linear

Across-slope shape: Convex

Ecological site: R069XY042CO - Clayey Plains LRU's A & B

Other vegetative classification: Clayey, Dry-Saline

(G069XW006CO), CLAYEY PLAINS (069AY042CO)

Hydric soil rating: No

Shingle

Percent of map unit: 5 percent

Landform: Hills, pediments

Landform position (two-dimensional): Backslope, shoulder

Landform position (three-dimensional): Head slope, side slope, rise

Down-slope shape: Convex

Across-slope shape: Linear

Ecological site: R069XY046CO - Shaly Plains LRU's A & B

Other vegetative classification: Needs Field Review

(G069XW050CO), Shaly Plains #46 (069XY046CO_2)

Hydric soil rating: No

Rock outcrop

Percent of map unit: 1 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 23, Jun 5, 2020



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



Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		<i>Lb/ac</i>	<i>Lb/ac</i>	<i>Lb/ac</i>		<i>Pct</i>
MyD—Midway clay loam, 3 to 15 percent slopes, gullied						
Midway	R069XY046CO: Shaly Plains LRU's A & B	1,200	800	400	Western wheatgrass	20
					Alkali sacaton	20
					Blue grama	15
					Sideoats grama	15
					Fourwing saltbush	10
					Green needlegrass	7
					Winterfat	5
					Little bluestem	3
					American vetch	2

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

PeD—Penrose channery loam, 1 to 15 percent slopes

Map Unit Setting

National map unit symbol: 2rgr9
Elevation: 3,800 to 6,000 feet
Mean annual precipitation: 10 to 14 inches
Mean annual air temperature: 48 to 54 degrees F
Frost-free period: 125 to 170 days
Farmland classification: Not prime farmland

Map Unit Composition

Penrose and similar soils: 80 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Penrose

Setting

Landform: Hills, hogbacks, scarps
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Crest, side slope
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear
Parent material: Slope alluvium over residuum weathered from limestone

Typical profile

A - 0 to 4 inches: channery loam
C - 4 to 15 inches: channery loam
R - 15 to 79 inches: bedrock

Properties and qualities

Slope: 1 to 15 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 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: 70 percent
Maximum salinity: Nonsaline (0.1 to 1.0 mmhos/cm)
Sodium adsorption ratio, maximum: 1.0
Available water capacity: Very low (about 2.0 inches)

Interpretive groups

Land capability classification (irrigated): 6s
Land capability classification (nonirrigated): 6s

Hydrologic Soil Group: D
Ecological site: R069XY058CO - Limestone Breaks LRU's A & B
Forage suitability group: Not Suited (G069XW000CO)
Other vegetative classification: Not Suited (G069XW000CO)
Hydric soil rating: No

Minor Components

Rock outcrop

Percent of map unit: 10 percent
Hydric soil rating: No

Manvel

Percent of map unit: 5 percent
Landform: Fans, interfluves
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope, interfluve
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Ecological site: R069XY006CO - Loamy Plains, LRU's A & B 10-14 Inches, P.Z.
Other vegetative classification: Loamy, Limy (G069XW022CO)
Hydric soil rating: No

Minnequa

Percent of map unit: 5 percent
Landform: Interfluves, ridges
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Crest
Down-slope shape: Linear
Across-slope shape: Linear, convex
Ecological site: R069XY006CO - Loamy Plains, LRU's A & B 10-14 Inches, P.Z.
Other vegetative classification: Loamy (G069XW017CO)
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 23, Jun 5, 2020



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



Map unit symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		<i>Lb/ac</i>	<i>Lb/ac</i>	<i>Lb/ac</i>		<i>Pct</i>
PeD—Penrose channery loam, 1 to 15 percent slopes						
Penrose	R069XY058CO: Limestone Breaks LRU's A & B	800	600	300	Sideoats grama	25
					Blue grama	20
					Indian ricegrass	10
					New mexico feathergrass	10
					Scribner needlegrass	10
					Oneseed juniper	5
					Little bluestem	5
					Galleta	5

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

MzB—Manzanola silty clay loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2rgrj
Elevation: 3,700 to 6,200 feet
Mean annual precipitation: 12 to 14 inches
Mean annual air temperature: 48 to 54 degrees F
Frost-free period: 130 to 170 days
Farmland classification: Not prime farmland

Map Unit Composition

Manzanola and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Manzanola

Setting

Landform: Interfluves, drainageways, fan remnants, terraces
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Side slope, tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from shale

Typical profile

A - 0 to 5 inches: silty clay loam
Bt - 5 to 26 inches: silty clay loam
Btk - 26 to 37 inches: silty clay loam
Bk1 - 37 to 48 inches: silty clay loam
Bk2 - 48 to 79 inches: silt loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
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: 14 percent
Gypsum, maximum content: 3 percent
Maximum salinity: Nonsaline to very slightly saline (0.5 to 3.0 mmhos/cm)
Sodium adsorption ratio, maximum: 5.0
Available water capacity: High (about 11.1 inches)

Interpretive groups

Land capability classification (irrigated): 3e
Land capability classification (nonirrigated): 4c
Hydrologic Soil Group: C
Ecological site: R069XY042CO - Clayey Plains LRU's A & B
Forage suitability group: Clayey (G069XW001CO)
Other vegetative classification: Clayey (G069XW001CO), Loamy Plains #6 (069XY006CO_2)
Hydric soil rating: No

Minor Components

Wilid

Percent of map unit: 5 percent
Landform: Interfluves
Landform position (two-dimensional): Summit
Down-slope shape: Linear
Across-slope shape: Linear
Ecological site: R069XY006CO - Loamy Plains, LRU's A & B 10-14 Inches, P.Z.
Other vegetative classification: Loamy (G069XW017CO), Loamy Plains #6 (069XY006CO_2)
Hydric soil rating: No

Fort

Percent of map unit: 5 percent
Landform: Interfluves, fan remnants
Landform position (two-dimensional): Summit, backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Linear
Ecological site: R069XY006CO - Loamy Plains, LRU's A & B 10-14 Inches, P.Z.
Other vegetative classification: Loamy (G069XW017CO), Loamy Plains #6 (069XY006CO_2)
Hydric soil rating: No

Razor

Percent of map unit: 5 percent
Landform: Pediments, hillslopes
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear, convex
Ecological site: R069XY042CO - Clayey Plains LRU's A & B
Other vegetative classification: Clayey, Dry-Saline (G069XW006CO), CLAYEY PLAINS (069AY042CO)

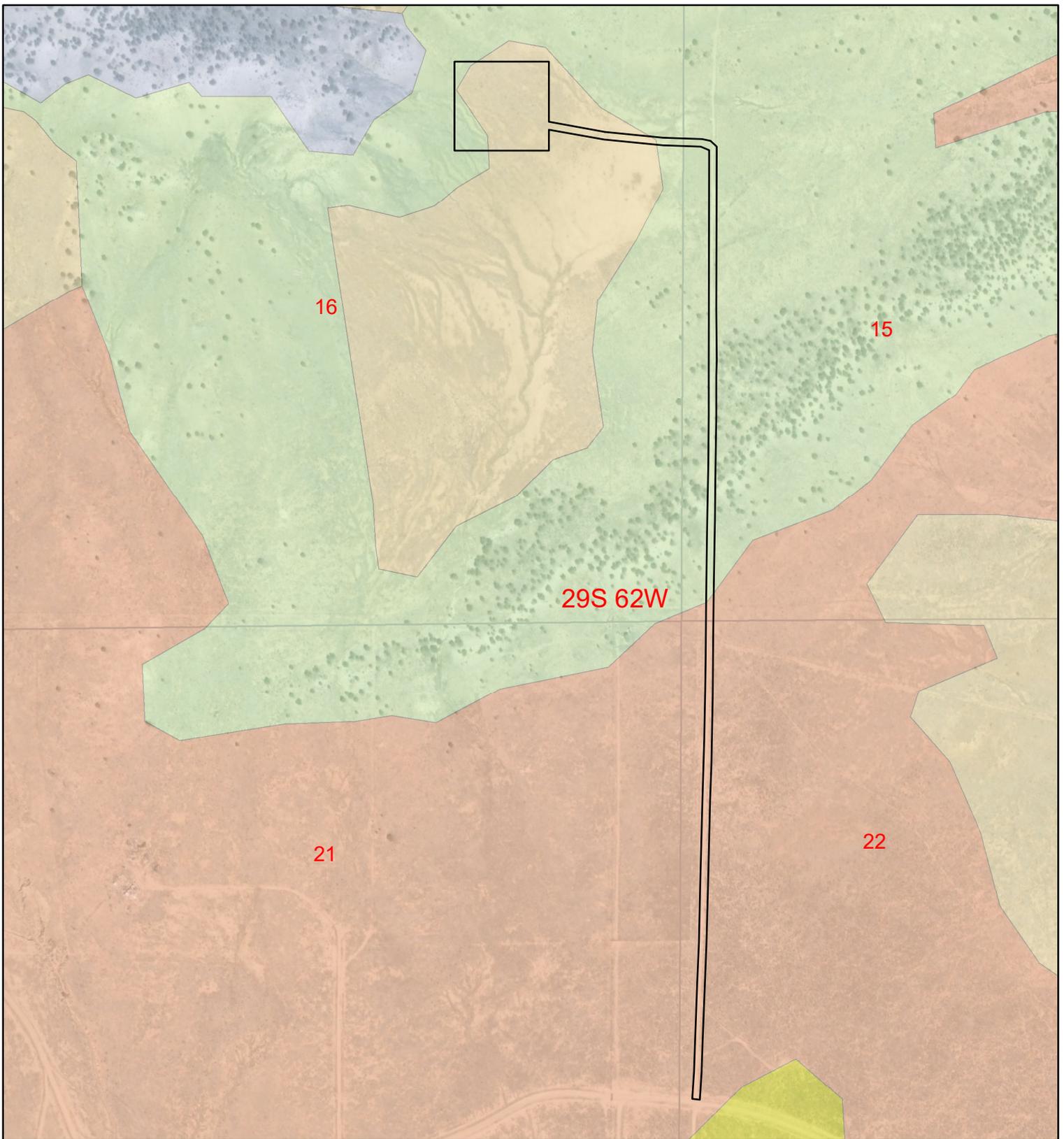
Hydric soil rating: No

Data Source Information

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

Survey Area Data: Version 23, Jun 5, 2020

MzB—Manzanola silty clay loam, 0 to 3 percent slopes						
Manzanola	R069XY042CO: Clayey Plains LRU's A & B	1,100	750	300	Western wheatgrass	30
					Blue grama	20
					Galleta	10
					Green needlegrass	5
					Fourwing saltbush	5



Soil Types

-  Kimera loam, 1 to 5 percent slopes
-  Manzanola silty clay loam, 0 to 3 percent slopes
-  Midway clay loam, 3 to 15 percent slopes, gullied
-  Penrose channery loam, 1 to 15 percent slopes
-  Penrose-Midway-Rock outcrop complex, 10 to 45 percent slopes
-  Disturbance Area

Source: NRCS

Date: 8/2/2021

ENTERPRISE STATE 16-1 (2962)

BNL (ENTERPRISE) INC

SOIL TYPES

