

Cortez Area, Colorado, Parts of Dolores and Montezuma Counties

11—Barx-Gapmesa complex, 2 to 6 percent slopes

Map Unit Setting

Elevation: 5,400 to 6,200 feet

Mean annual precipitation: 10 to 13 inches

Mean annual air temperature: 50 to 52 degrees F

Frost-free period: 120 to 135 days

Map Unit Composition

Barx and similar soils: 60 percent

Gapmesa and similar soils: 30 percent

Description of Barx

Setting

Landform: Mesas, hills

Landform position (three-dimensional): Base slope, crest

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Eolian deposits derived from sandstone

Properties and qualities

Slope: 2 to 6 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 to high
(0.60 to 2.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 30 percent

Sodium adsorption ratio, maximum: 5.0

Available water capacity: High (about 9.6 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 4c

Hydrologic Soil Group: B

Ecological site: Semidesert Loam (R035XY325CO)

Typical profile

0 to 3 inches: Loam

3 to 31 inches: Sandy clay loam

31 to 60 inches: Sandy clay loam

Description of Gapmesa

Setting

Landform: Hills, mesas

Landform position (three-dimensional): Crest, base slope

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Eolian deposits derived from sandstone

Properties and qualities

Slope: 2 to 6 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): 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: 10 percent
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Very low (about 2.8 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 4c
Hydrologic Soil Group: C
Ecological site: Semidesert Loam (R035XY325CO)

Typical profile

0 to 2 inches: Very fine sandy loam
2 to 21 inches: Very fine sandy loam
21 to 28 inches: Very gravelly fine sandy loam
28 to 38 inches: Unweathered bedrock

42—Gladel-Pulpit complex, 3 to 9 percent slopes

Map Unit Setting

Elevation: 6,200 to 7,400 feet
Mean annual precipitation: 13 to 16 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 120 days

Map Unit Composition

Gladel and similar soils: 45 percent
Pulpit and similar soils: 35 percent

Description of Gladel

Setting

Landform: Hills, mesas
Landform position (three-dimensional): Base slope, side slope, crest
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Eolian deposits over residuum weathered from sandstone

Properties and qualities

Slope: 3 to 9 percent
Depth to restrictive feature: 12 to 20 inches to lithic bedrock
Drainage class: Well drained

Custom Soil Resource Report

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: 15 percent
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Very low (about 1.6 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 6s
Hydrologic Soil Group: D
Ecological site: PINYON-JUNIPER (R035XY909CO)

Typical profile

0 to 5 inches: Flaggy fine sandy loam
5 to 10 inches: Flaggy fine sandy loam
10 to 15 inches: Flaggy fine sandy loam
15 to 25 inches: Unweathered bedrock

Description of Pulpit

Setting

Landform: Mesas, hills
Landform position (three-dimensional): Base slope, side slope, crest
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Eolian deposits derived from sandstone

Properties and qualities

Slope: 3 to 9 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): 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: 10 percent
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Moderate (about 6.4 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability classification (irrigated): 4e
Land capability (nonirrigated): 4e
Hydrologic Soil Group: C
Ecological site: Loamy Foothills (R036XY284CO)

Typical profile

0 to 10 inches: Loam
10 to 20 inches: Loam
20 to 36 inches: Loam
36 to 46 inches: Unweathered bedrock

109—Romberg-Crosscan complex, 6 to 25 percent slopes

Map Unit Setting

Elevation: 5,400 to 6,800 feet
Mean annual precipitation: 10 to 14 inches
Mean annual air temperature: 50 to 52 degrees F
Frost-free period: 120 to 135 days

Map Unit Composition

Romberg and similar soils: 45 percent
Crosscan and similar soils: 40 percent

Description of Romberg

Setting

Landform: Hills, alluvial fans, canyons
Landform position (three-dimensional): Crest, base slope, side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium derived from sandstone and shale and/or colluvium derived from sandstone and shale

Properties and qualities

Slope: 6 to 25 percent
Surface area covered with cobbles, stones or boulders: 1.6 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: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: Low (about 4.8 inches)

Interpretive groups

Farmland classification: Not prime farmland
Land capability (nonirrigated): 7s
Hydrologic Soil Group: B

Typical profile

0 to 2 inches: Very stony loam
2 to 20 inches: Very stony clay loam
20 to 60 inches: Very stony clay loam

Description of Crosscan

Setting

Landform: Canyons, hills

Custom Soil Resource Report

Landform position (three-dimensional): Base slope, side slope, crest

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Colluvium derived from shale and/or residuum weathered from shale

Properties and qualities

Slope: 6 to 25 percent

Surface area covered with cobbles, stones or boulders: 1.6 percent

Depth to restrictive feature: 6 to 20 inches to paralithic 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: 15 percent

Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)

Available water capacity: Very low (about 1.6 inches)

Interpretive groups

Farmland classification: Not prime farmland

Land capability (nonirrigated): 7s

Hydrologic Soil Group: D

Typical profile

0 to 2 inches: Very bouldery sandy clay loam

2 to 18 inches: Very gravelly clay loam

18 to 28 inches: Weathered bedrock

143—Wetherill loam, 1 to 3 percent slopes

Map Unit Setting

Elevation: 6,200 to 7,400 feet

Mean annual precipitation: 13 to 16 inches

Mean annual air temperature: 46 to 50 degrees F

Frost-free period: 100 to 120 days

Map Unit Composition

Wetherill and similar soils: 90 percent

Minor components: 1 percent

Description of Wetherill

Setting

Landform: Hills, mesas

Landform position (three-dimensional): Base slope, side slope

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Eolian deposits derived from sandstone

Properties and qualities

Slope: 1 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 high (0.20 to 0.60 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 30 percent
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Sodium adsorption ratio, maximum: 4.0
Available water capacity: High (about 11.0 inches)

Interpretive groups

Farmland classification: Prime farmland if irrigated
Land capability classification (irrigated): 3c
Land capability (nonirrigated): 3c
Hydrologic Soil Group: B
Ecological site: Loamy Foothills (R036XY284CO)

Typical profile

0 to 3 inches: Loam
3 to 7 inches: Loam
7 to 48 inches: Clay loam
48 to 60 inches: Loam

Minor Components

Aquents

Percent of map unit: 1 percent
Landform: Drainageways

144—Wetherill loam, 3 to 6 percent slopes

Map Unit Setting

Elevation: 6,200 to 7,400 feet
Mean annual precipitation: 13 to 16 inches
Mean annual air temperature: 46 to 50 degrees F
Frost-free period: 100 to 120 days

Map Unit Composition

Wetherill and similar soils: 85 percent
Minor components: 3 percent

Description of Wetherill

Setting

Landform: Hills, mesas
Landform position (three-dimensional): Base slope, side slope

Custom Soil Resource Report

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Eolian deposits derived from sandstone

Properties and qualities

Slope: 3 to 6 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: None

Frequency of ponding: None

Calcium carbonate, maximum content: 30 percent

Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)

Sodium adsorption ratio, maximum: 4.0

Available water capacity: High (about 11.0 inches)

Interpretive groups

Farmland classification: Prime farmland if irrigated

Land capability classification (irrigated): 3e

Land capability (nonirrigated): 3e

Hydrologic Soil Group: B

Ecological site: Loamy Foothills (R036XY284CO)

Typical profile

0 to 3 inches: Loam

3 to 7 inches: Loam

7 to 48 inches: Clay loam

48 to 60 inches: Loam

Minor Components

Aquents

Percent of map unit: 3 percent

Landform: Drainageways