

Map Unit Description

Mesa County Area, Colorado

69 Leebench, warm-Avalon complex, 3 to 12 percent slopes

Setting

Elevation: 4500 to 4900 feet
Mean annual precipitation: 6 to 10 inches
Mean annual air temperature: 50 to 54 degrees F
Frost-free period: 150 to 180 days

Composition

Leebench, warm, and similar soils: 45 percent
Avalon and similar soils: 40 percent

Description of Leebench, warm

Setting

Landform: Mesas, pediments
Landform position (two-dimensional): Summit
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Eolian deposits over alluvium derived from sandstone and shale

Properties and Qualities

Slope: 3 to 12 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.20 to 2.00 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 35 percent
Gypsum maximum: 0 percent
Available water capacity: Moderate (about 7.5 inches)

Interpretive Groups

Land capability (non irrigated): 7s
Ecological site: Loamy Salt Desert (R034XY401CO)

Typical Profile

0 to 4 inches: fine sandy loam
4 to 10 inches:
10 to 35 inches: sandy clay loam
35 to 45 inches: very cobbly sandy clay loam
45 to 60 inches: very gravelly sandy clay loam

Description of Avalon

Setting

Landform: Mesas
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Alluvium and/or slope alluvium derived from sandstone and shale

Properties and Qualities

Slope: 3 to 12 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 40 percent
Gypsum maximum: 0 percent
Available water capacity: High (about 9.5 inches)

Interpretive Groups

Land capability (non irrigated): 7c
Ecological site: Loamy Salt Desert (R034XY401CO)

Typical Profile

0 to 2 inches: sandy loam
2 to 10 inches: sandy loam

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10 to 50 inches: sandy clay loam
50 to 60 inches: clay loam

Map Unit Description

Mesa County Area, Colorado

87 Persayo-Blackston complex, 6 to 45 percent slopes

Setting

Elevation: 4500 to 6000 feet
Mean annual precipitation: 6 to 10 inches
Mean annual air temperature: 50 to 54 degrees F
Frost-free period: 100 to 190 days

Composition

Persayo and similar soils: 65 percent
Blackston and similar soils: 25 percent

Description of Persayo

Setting

Landform: Mesas
Landform position (two-dimensional): Backslope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Residuum weathered from clayey shale

Properties and Qualities

Slope: 6 to 45 percent
Depth to restrictive feature: 10 to 20 inches to Paralithic 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: 40 percent
Gypsum maximum: 10 percent
Salinity maximum: Non saline or slightly saline (2.0 to 8.0 mmhos/cm)
Sodium adsorption ratio maximum: 5.0
Available water capacity: Very low (about 2.5 inches)

Interpretive Groups

Land capability (non irrigated): 7e
Ecological site: Silty Saltdesert (R034XY410CO)

Typical Profile

0 to 4 inches: silty clay loam
4 to 15 inches: silty clay loam
15 to 19 inches: weathered bedrock

Description of Blackston

Setting

Landform: Mesas
Landform position (two-dimensional): Shoulder
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Alluvium derived from sandstone and shale and/or outwash derived from sandstone and shale

Properties and Qualities

Slope: 6 to 25 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high (0.20 to 0.60 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 35 percent
Gypsum maximum: 0 percent
Available water capacity: Very low (about 2.8 inches)

Interpretive Groups

Land capability (non irrigated): 7s
Ecological site: Loamy Saltdesert (R034XY401CO)

Typical Profile

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0 to 3 inches: very gravelly sandy clay loam
3 to 7 inches: gravelly clay loam
7 to 15 inches: very gravelly sandy clay loam
15 to 35 inches: extremely gravelly sandy loam
35 to 60 inches: extremely gravelly sand