

Map Unit Description

Cochetopa Area, Colorado, Parts of Gunnison, Hinsdale, and Saguache Counties

104 Cochedome-Quander, dry-Snowdon, warm complex, 25 to 65 percent slopes

Setting

Elevation: 9100 to 10200 feet
Mean annual precipitation: 18 to 22 inches
Mean annual air temperature: 36 to 40 degrees F
Frost-free period: 55 to 65 days

Composition

Cochedome and similar soils: 35 percent
Quander, dry, and similar soils: 30 percent
Snowdon, warm, and similar soils: 20 percent

Description of Cochedome

Setting

Landform: Benches, mountain slopes
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Colluvium and/or slope alluvium derived from andesite and/or rhyolite and/or volcanic breccia and/or tuff over residuum weathered from tuff and/or rhyolite and/or volcanic breccia and/or andesite

Properties and Qualities

Slope: 25 to 65 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 or moderately low (0.00 to 0.06 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 0 percent
Gypsum maximum: 0 percent
Available water capacity: Very low (about 2.6 inches)

Interpretive Groups

Land capability (non irrigated): 7e

Typical Profile

0 to 1 inches: slightly decomposed plant material
1 to 6 inches: gravelly sandy loam
6 to 10 inches: very gravelly sandy clay loam
10 to 22 inches: very gravelly clay
22 to 38 inches: extremely cobbly clay
38 to 42 inches: unweathered bedrock

Description of Quander, dry

Setting

Landform: Alluvial fans, mesas, mountain slopes, ridges
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium and/or slope alluvium derived from tuff and/or volcanic breccia and/or andesite and/or rhyolite

Properties and Qualities

Slope: 25 to 65 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: 0 percent
Gypsum maximum: 0 percent
Available water capacity: Low (about 4.0 inches)

Interpretive Groups

Land capability (non irrigated): 7e
Ecological site: Mountain Loam (R048AY228CO)

Typical Profile

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0 to 8 inches: very gravelly loam
8 to 24 inches: extremely gravelly sandy clay loam
24 to 31 inches: extremely gravelly sandy loam
31 to 66 inches: very gravelly loam

Description of Snowdon, warm

Setting

Landform: Mountain slopes

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Colluvium and/or slope alluvium derived from andesite and/or rhyolite and/or volcanic breccia and/or tuff over residuum weathered from tuff and/or rhyolite and/or volcanic breccia and/or andesite

Properties and Qualities

Slope: 25 to 65 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

Available water capacity: Very low (about 0.9 inches)

Interpretive Groups

Land capability (non irrigated): 7e

Typical Profile

0 to 2 inches: very gravelly loam
2 to 11 inches: very gravelly sandy clay loam
11 to 15 inches: unweathered bedrock

Rangeland Productivity and Plant Composition

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Map 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>
104:						
Cochedome	---	---	---	---	---	---
Quander, dry	Mountain Loam	1,800	1,500	1,200	Arizona fescue	20
					Slender wheatgrass	15
					Letterman's needlegrass	10
					Muttongrass	10
					Slender wheatgrass	10
					Mountain brome	5
					Mountain muhly	5
					Parry's danthonia	5
					Western wheatgrass	5
Snowdon, warm	---	---	---	---	---	---