

Moffat County Area, Colorado

22—Bulkley silty clay, 3 to 12 percent slopes

Map Unit Setting

Elevation: 6,200 to 7,000 feet

Mean annual precipitation: 13 to 15 inches

Mean annual air temperature: 42 to 45 degrees F

Frost-free period: 75 to 95 days

Map Unit Composition

Bulkley and similar soils: 80 percent

Description of Bulkley

Setting

Landform: Hills, alluvial fans

Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Talf

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Alluvium derived from shale

Properties and qualities

Slope: 3 to 12 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.06 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum content: 10 percent

Gypsum, maximum content: 1 percent

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

Available water capacity: High (about 9.0 inches)

Interpretive groups

Land capability (nonirrigated): 4e

Ecological site: Clayey Foothills (R034XY289CO)

Typical profile

0 to 4 inches: Silty clay

4 to 36 inches: Clay

36 to 60 inches: Silty clay

73—Foidel loam, 25 to 65 percent slopes

Map Unit Setting

Elevation: 7,000 to 8,400 feet

Mean annual precipitation: 18 to 20 inches

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Mean annual air temperature: 37 to 40 degrees F
Frost-free period: 50 to 75 days

Map Unit Composition

Foidel and similar soils: 85 percent

Description of Foidel

Setting

Landform: Mountainsides
Landform position (three-dimensional): Mountainflank
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loess and colluvium derived from fine grained sandstone and shale

Properties and qualities

Slope: 25 to 65 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
Maximum salinity: Nonsaline (0.0 to 2.0 mmhos/cm)
Available water capacity: High (about 11.6 inches)

Interpretive groups

Land capability (nonirrigated): 7e
Ecological site: Brushy Loam (R048AY238CO)

Typical profile

0 to 2 inches: Slightly decomposed plant material
2 to 28 inches: Loam
28 to 39 inches: Clay loam
39 to 60 inches: Clay loam

166—Routt loam, 3 to 25 percent slopes

Map Unit Setting

Elevation: 7,000 to 8,000 feet
Mean annual precipitation: 18 to 20 inches
Mean annual air temperature: 37 to 40 degrees F
Frost-free period: 50 to 75 days

Map Unit Composition

Routt and similar soils: 80 percent

Description of Routt

Setting

Landform: Mountainsides, plateaus
Landform position (three-dimensional): Mountainflank

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Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Loess and residuum derived from shale

Properties and qualities

Slope: 3 to 25 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

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

Available water capacity: High (about 11.1 inches)

Interpretive groups

Land capability (nonirrigated): 6e

Ecological site: Brushy Loam (R048AY238CO)

Typical profile

0 to 2 inches: Slightly decomposed plant material

2 to 27 inches: Loam

27 to 33 inches: Clay loam

33 to 60 inches: Clay

206—Ustorthents, frigid-Borolls complex, 25 to 75 percent slopes

Map Unit Setting

Elevation: 7,000 to 8,500 feet

Mean annual precipitation: 16 to 20 inches

Mean annual air temperature: 37 to 45 degrees F

Frost-free period: 50 to 85 days

Map Unit Composition

Ustorthents, frigid, and similar soils: 55 percent

Borolls and similar soils: 35 percent

Description of Ustorthents, Frigid

Setting

Landform: Mountainsides

Landform position (two-dimensional): Footslope, backslope

Landform position (three-dimensional): Mountainflank

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Residuum and colluvium derived from sedimentary rocks

Properties and qualities

Slope: 25 to 75 percent

Depth to restrictive feature: 10 to 30 inches to lithic bedrock; 10 to 30 inches to paralithic bedrock

Drainage class: Well drained

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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: 10 percent

Available water capacity: Very low (about 2.5 inches)

Interpretive groups

Land capability (nonirrigated): 7e

Typical profile

0 to 3 inches: Very channery sandy loam

3 to 28 inches: Extremely channery sandy loam

28 to 32 inches: Unweathered bedrock

Description of Borolls

Setting

Landform: Mountainsides

Landform position (two-dimensional): Backslope, footslope

Landform position (three-dimensional): Mountainflank

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Residuum and colluvium derived from sedimentary rocks

Properties and qualities

Slope: 25 to 75 percent

Depth to restrictive feature: 20 to 80 inches to lithic bedrock; 20 to 80 inches to paralithic 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: 5 percent

Available water capacity: Low (about 4.5 inches)

Interpretive groups

Land capability (nonirrigated): 7e

Typical profile

0 to 19 inches: Loam

19 to 30 inches: Cobbly sandy clay loam

30 to 34 inches: Unweathered bedrock

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Rangeland Productivity and Plant Composition– Moffat County Area, Colorado						
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>
22—Bulkley silty clay, 3 to 12 percent slopes						
Bulkley	Clayey Foothills	1,200	900	600	Western wheatgrass	40
					Wyoming big sagebrush	15
					Bottlebrush squirreltail	5
					Prairie junegrass	5
					Miscellaneous perennial forbs	5
					Miscellaneous perennial grasses	5
73—Foidel loam, 25 to 65 percent slopes						
Foidel	Brushy Loam	3,000	2,000	1,500	Gambel oak	20
					Saskatoon serviceberry	10
					Mountain brome	10
					Common chokecherry	5
					Mountain snowberry	5
					Elk sedge	5
					Miscellaneous perennial grasses	5
					Letterman's needlegrass	5
					Slender wheatgrass	5
					Miscellaneous perennial forbs	5
					Miscellaneous shrubs	5
166—Routt loam, 3 to 25 percent slopes						
Routt	Brushy Loam	3,000	2,000	1,500	Saskatoon serviceberry	10
					Gambel oak	10

Custom Soil Resource Report

Rangeland Productivity and Plant Composition– Moffat County Area, Colorado						
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>
					Mountain brome	10
					Mountain snowberry	5
					Slender wheatgrass	5
					Elk sedge	5
					Nodding brome	5
					Letterman's needlegrass	5
206—Ustorthents, frigid-Borolls complex, 25 to 75 percent slopes						
Ustorthents, frigid	—	900	700	500	Wheatgrass	20
					Sagebrush	10
					Indian ricegrass	10
					Antelope bitterbrush	5
					Needleandthread	5
					True mountain mahogany	5
					Bluegrass	5
					Serviceberry	5
Borolls	—	2,500	1,800	1,200	Mountain snowberry	10
					Columbia needlegrass	10
					Gambel oak	10
					Elk sedge	10
					Letterman needlegrass	10
					Mountain big sagebrush	10
					Slender wheatgrass	10
					Saskatoon serviceberry	10
					Mountain brome	10