

Map Unit Description

Arapahoe County, Colorado

FoC Fondis-Colby silt loams, 3 to 5 percent slopes

Setting

Elevation: 4700 to 6200 feet
Mean annual precipitation: 12 to 16 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 150 to 170 days

Composition

Fondis and similar soils: 65 percent
Colby and similar soils: 25 percent
Minor components: 10 percent

Description of Fondis

Setting

Landform: Drainageways
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Silty and/or loamy

Properties and Qualities

Slope: 3 to 5 percent
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: 15 percent
Gypsum maximum: 0 percent
Available water capacity: High (about 10.8 inches)

Interpretive Groups

Land capability (non irrigated): 3c
Ecological site: LOAMY FOOTHILL (R067XY202CO)

Typical Profile

0 to 5 inches: silt loam
5 to 17 inches: clay
17 to 60 inches: clay loam

Description of Colby

Setting

Landform: Ridges
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Fine-loamy eolian deposits and/or fine-silty eolian deposits

Properties and Qualities

Slope: 3 to 5 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.57 to 2.00 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 20 percent
Gypsum maximum: 0 percent
Available water capacity: High (about 10.2 inches)

Interpretive Groups

Land capability (non irrigated): 3c
Ecological site: LOAMY FOOTHILL (R067XY202CO)

Typical Profile

0 to 4 inches: silt loam
4 to 60 inches: silt loam, loam

Minor Components

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Weld

Percent of map unit: 6 percent

Ft collins

Percent of map unit: 4 percent

Rangeland Productivity and Plant Composition

Arapahoe County, Colorado

Map symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/Ac	Lb/Ac	Lb/Ac	Pct	
FoC:						
Fondis	LOAMY FOOTHILL	1,500	1,200	700	Western wheatgrass	35
					Green needlegrass	10
					Kentucky bluegrass	5
					Slender wheatgrass	5
Colby	LOAMY FOOTHILL	1,600	1,000	500	Western wheatgrass	30
					Green needlegrass	20
					Needleandthread	10
					Sideoats grama	5

Map Unit Description

Arapahoe County, Colorado

RhE Renohill-Buick loams, 9 to 20 percent slopes

Setting

Landscape: Uplands
Elevation: 3600 to 6200 feet
Mean annual precipitation: 11 to 16 inches
Mean annual air temperature: 45 to 48 degrees F
Frost-free period: 100 to 170 days

Composition

Renohill and similar soils: 67 percent
Buick and similar soils: 20 percent
Minor components: 13 percent

Description of Renohill

Setting

Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Clay loamy alluvium

Properties and Qualities

Slope: 9 to 20 percent
Depth to restrictive feature: 20 to 40 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: 15 percent
Gypsum maximum: 0 percent
Available water capacity: Low (about 4.5 inches)

Interpretive Groups

Land capability (non irrigated): 6e
Ecological site: Loamy Slopes (R067BY008CO)

Typical Profile

0 to 4 inches: loam
4 to 14 inches: clay loam, clay
14 to 26 inches: loam, clay loam
26 to 30 inches: unweathered bedrock

Description of Buick

Setting

Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium and/or eolian deposits

Properties and Qualities

Slope: 5 to 8 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: 15 percent
Gypsum maximum: 0 percent
Available water capacity: High (about 10.5 inches)

Interpretive Groups

Land capability (non irrigated): 4c
Ecological site: Loamy Slopes (R067BY008CO)

Typical Profile

0 to 5 inches: loam
5 to 22 inches: clay loam
22 to 60 inches: sandy clay loam, clay loam

Map Unit Description

Arapahoe County, Colorado

Minor Components

Litle

Percent of map unit: 10 percent

Fondis

Percent of map unit: 3 percent

Rangeland Productivity and Plant Composition

Arapahoe County, Colorado

Map symbol and soil name	Ecological site	Total dry-weight production			Characteristic vegetation	Rangeland composition
		Favorable year	Normal year	Unfavorable year		
		Lb/Ac	Lb/Ac	Lb/Ac	Pct	
RhE:						
Renohill	Loamy Slopes	1,400	1,000	600	Little bluestem	20
					Western wheatgrass	20
					Sideoats grama	15
					Needleandthread	10
					Fendler threeawn	5
					Sand dropseed	5
					Threadleaf sedge	5
Buick	Loamy Slopes	1,600	1,000	800	Western wheatgrass	15
					Needleandthread	10
					Prairie junegrass	10