

# 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

## Map Unit Description

Arapahoe County, Colorado

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

RhD Renohill-Buick loams, 3 to 9 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: 65 percent  
Buick and similar soils: 25 percent  
Minor components: 10 percent

## Description of Renohill

### Setting

Landform: Drainageways  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Loam silty and clayey alluvium

### Properties and Qualities

Slope: 3 to 9 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 5.2 inches)

### Interpretive Groups

Land capability (non irrigated): 4e  
Ecological site: Loamy Plains (R067BY002CO)

### Typical Profile

0 to 4 inches: loam  
4 to 18 inches: clay loam, clay  
18 to 30 inches: loam, clay loam  
30 to 34 inches: unweathered bedrock

## Description of Buick

### Setting

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

### Properties and Qualities

Slope: 3 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 Plains (R067BY002CO)

### Typical Profile

0 to 4 inches: loam

## Map Unit Description

Arapahoe County, Colorado

4 to 20 inches: clay loam  
20 to 60 inches: sandy clay loam, clay loam

### Minor Components

Fondis

Percent of map unit: 5 percent

Litle

Percent of map unit: 5 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
RhD:						
Renohill	Loamy Plains	1,400	1,100	800	Western wheatgrass	10
					Other perennial grasses	5
Buick	Loamy Plains	1,600	1,000	800	Western wheatgrass	15
					Needleandthread	10
					Prairie junegrass	10