Map Unit Description

Yuma County, Colorado

10 Colby silt loam, 3 to 6 percent slopes

Setting

Elevation: 3500 to 4200 feet
Mean annual precipitation: 15 to 17 inches
Mean annual air temperature: 50 to 52 degrees F
Frost-free period: 130 to 150 days

Composition

Colby and similar soils: 85 percent
Minor components: 15 percent

Description of Colby

Setting

Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loess

Properties and Qualities

Slope: 3 to 6 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: 15 percent
Gypsum maximum: 0 percent
Available water capacity: High (about 10.2 inches)

Interpretive Groups

Land capability classification (irrigated): 4e
Land capability (non irrigated): 4e
Ecological site: Loamy Plains (R072XY001CO)

Typical Profile

0 to 8 inches: silt loam
8 to 60 inches: silt loam

Minor Components

Keith

Percent of map unit: 8 percent

Kuma

Percent of map unit: 7 percent

Rangeland Productivity and Plant Composition

Yuma 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*
10:						
Colby	Loamy Plains	1,800	1,500	1,400	Western wheatgrass	20
					Green needlegrass	5

Map Unit Description

Yuma County, Colorado

25 Kuma-Keith silt loams

Setting

Elevation: 3500 to 5400 feet
Mean annual precipitation: 15 to 18 inches
Mean annual air temperature: 48 to 52 degrees F
Frost-free period: 140 to 160 days

Composition

Kuma and similar soils: 55 percent
Keith and similar soils: 30 percent
Minor components: 15 percent

Description of Kuma

Setting

Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loess

Properties and Qualities

Slope: 0 to 3 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.57 to 5.95 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 10 percent
Gypsum maximum: 2 percent
Available water capacity: High (about 11.1 inches)

Interpretive Groups

Land capability classification (irrigated): 2e
Land capability (non irrigated): 2c
Ecological site: Loamy Plains (R072XY001CO)

Typical Profile

0 to 10 inches: silt loam
10 to 30 inches: silty clay loam
30 to 60 inches: silt loam

Description of Keith

Setting

Landform: Plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loess

Properties and Qualities

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

Interpretive Groups

Land capability classification (irrigated): 2e
Land capability (non irrigated): 2e
Ecological site: Loamy Plains (R072XY001CO)

Typical Profile

0 to 4 inches: silt loam
4 to 15 inches: silty clay loam

15 to 60 inches: silt loam

Minor Components

Colby
Percent of map unit: 10 percent

Other soils
Percent of map unit: 3 percent

Aquic haplustolls
Percent of map unit: 2 percent
Landform: Depressions

Rangeland Productivity and Plant Composition

Yuma 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*
25:						
Kuma	Loamy Plains	2,000	1,800	1,400	Western wheatgrass	15
					Green needlegrass	5
Keith	Loamy Plains	1,800	1,500	800	Western wheatgrass	40
					Green needlegrass	25
					Needleandthread	5