

Map Unit Description

Kiowa County, Colorado

41 Wiley loam

Setting

Elevation: 4500 to 6500 feet
Mean annual precipitation: 13 to 16 inches
Mean annual air temperature: 48 to 54 degrees F
Frost-free period: 140 to 170 days

Composition

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

Description of Wiley

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 (0.60 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 11.3 inches)

Interpretive Groups

Land capability classification (irrigated): 2e
Land capability (non irrigated): 4e
Ecological site: Loamy Plains (R067BY002CO)
Other vegetative classification: LOAMY PLAINS (067XY002CO_1)

Typical Profile

0 to 5 inches: loam
5 to 16 inches: silty clay loam
16 to 60 inches: silt loam

Minor Components

Other soils

Percent of map unit: 15 percent

Rangeland Productivity and Plant Composition

Kiowa County, Colorado

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>
41:						
Wiley	Loamy Plains	1,200	800	300	Blue grama	30
					Western wheatgrass	25
					Green needlegrass	10
					Buffalograss	5
					Winterfat	5
					American vetch	3
					Purple prairieclover	2
					Sand dropseed	2
					Scarlet globemallow	2
					Sun sedge	2