

Map Unit Description

Kiowa County, Colorado

7 Bijou-Valent loamy sands, 1 to 8 percent slopes

Setting

Elevation: 3600 to 6000 feet
Mean annual precipitation: 13 to 15 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 130 to 180 days

Composition

Bijou and similar soils: 50 percent
Valent and similar soils: 40 percent
Minor components: 10 percent

Description of Bijou

Setting

Landform: Hills
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Eolian sands

Properties and Qualities

Slope: 1 to 4 percent
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 5 percent
Gypsum maximum: 0 percent
Available water capacity: Low (about 4.5 inches)

Interpretive Groups

Land capability classification (irrigated): 4e
Land capability (non irrigated): 4e
Ecological site: Deep Sand (R069XY019CO)
Other vegetative classification: DEEP SANDS (067XY015CO_2)

Typical Profile

0 to 7 inches: loamy sand
7 to 24 inches: sandy loam
24 to 60 inches: sand

Description of Valent

Setting

Landform: Hills
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Eolian sands

Properties and Qualities

Slope: 3 to 8 percent
Drainage class: Excessively drained
Capacity of the most limiting layer to transmit water (Ksat): High or very high (5.95 to 19.98 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 0 percent
Gypsum maximum: 0 percent
Available water capacity: Low (about 4.9 inches)

Interpretive Groups

Land capability classification (irrigated): 4e
Land capability (non irrigated): 6e
Ecological site: Deep Sand (R069XY019CO)
Other vegetative classification: DEEP SANDS (067XY015CO_2)

Typical Profile

Map Unit Description

Kiowa County, Colorado

0 to 5 inches: loamy sand
5 to 60 inches: fine sand
60 to 64 inches: sand

Minor Components

Other soils

Percent of map unit: 10 percent

Map Unit Description

Kiowa County, Colorado

37 Valent loamy sand, 3 to 10 percent slopes

Setting

Elevation: 3600 to 5000 feet
Mean annual precipitation: 13 to 15 inches
Mean annual air temperature: 48 to 52 degrees F
Frost-free period: 130 to 180 days

Composition

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

Description of Valent

Setting

Landform: Dunes
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Eolian sands

Properties and Qualities

Slope: 3 to 10 percent
Drainage class: Excessively drained
Capacity of the most limiting layer to transmit water (Ksat): High or very high (5.95 to 19.98 in/hr)
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate maximum: 0 percent
Gypsum maximum: 0 percent
Available water capacity: Low (about 4.9 inches)

Interpretive Groups

Land capability classification (irrigated): 4e
Land capability (non irrigated): 6e
Ecological site: Deep Sand (R069XY019CO)
Other vegetative classification: DEEP SANDS (067XY015CO_2)

Typical Profile

0 to 5 inches: loamy sand
5 to 60 inches: fine sand
60 to 64 inches: sand

Minor Components

Other soils

Percent of map unit: 15 percent