

Map Unit Description

Yuma County, Colorado

8 Canyon-Dioxide complex, 1 to 9 percent slopes

Setting

Elevation: 3500 to 4200 feet
Mean annual precipitation: 16 to 18 inches
Mean annual air temperature: 50 to 52 degrees F
Frost-free period: 130 to 150 days

Composition

Canyon and similar soils: 50 percent
Dioxide and similar soils: 30 percent
Minor components: 20 percent

Description of Canyon

Setting

Landform: Knolls, hills
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Highly calcareous, ogallala formation sandstone

Properties and Qualities

Slope: 1 to 5 percent
Depth to restrictive feature: 6 to 20 inches to Paralithic bedrock
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: 10 percent
Gypsum maximum: 0 percent
Available water capacity: Very low (about 1.9 inches)

Interpretive Groups

Land capability (non irrigated): 6s
Ecological site: Limestone Breaks (R072XY060CO)

Typical Profile

0 to 8 inches: loam
8 to 12 inches: loam
12 to 16 inches: weathered bedrock

Description of Dioxide

Setting

Landform: Knolls, hills
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Calcareous alluvium of the ogallala formation

Properties and Qualities

Slope: 3 to 9 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: 30 percent
Gypsum maximum: 0 percent
Available water capacity: High (about 9.5 inches)

Interpretive Groups

Land capability classification (irrigated): 6e
Land capability (non irrigated): 6e
Ecological site: Loamy Plains (R072XY001CO)

Typical Profile

0 to 9 inches: fine sandy loam
9 to 24 inches: sandy clay loam

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24 to 60 inches: sandy clay loam

Minor Components

Bayard

Percent of map unit: 10 percent

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Percent of map unit: 10 percent