

# 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

#### Iliff

Percent of map unit: 10 percent