

## Weld County, Colorado, Northern Part

### 19—Bushman-Curabith-Canyon complex, 0 to 20 percent slopes

#### Map Unit Setting

*Elevation:* 3,000 to 6,000 feet  
*Mean annual precipitation:* 11 to 19 inches  
*Mean annual air temperature:* 45 to 55 degrees F  
*Frost-free period:* 120 to 160 days

#### Map Unit Composition

*Bushman and similar soils:* 45 percent  
*Curabith and similar soils:* 30 percent  
*Canyon and similar soils:* 20 percent  
*Minor components:* 5 percent

#### Description of Bushman

##### Setting

*Landform:* Knolls, breaks, ridges  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Calcareous loamy alluvium

##### Properties and qualities

*Slope:* 0 to 9 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Capacity of the most limiting layer to transmit water (Ksat):* High (2.00 to 6.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 15 percent  
*Maximum salinity:* Nonsaline to very slightly saline (0.0 to 4.0 mmhos/cm)  
*Available water capacity:* Moderate (about 8.4 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 6e  
*Land capability (nonirrigated):* 6e  
*Ecological site:* Sandy Plains (R067BY024CO)

##### Typical profile

*0 to 6 inches:* Fine sandy loam  
*6 to 60 inches:* Sandy loam

#### Description of Curabith

##### Setting

*Landform:* Breaks, knolls, ridges  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear

*Parent material:* Calcareous loamy alluvium

**Properties and qualities**

*Slope:* 0 to 20 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high to high (0.60 to 2.00 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 35 percent  
*Maximum salinity:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Available water capacity:* Low (about 4.7 inches)

**Interpretive groups**

*Land capability classification (irrigated):* 6e  
*Land capability (nonirrigated):* 6e  
*Ecological site:* Limestone Breaks (R067BY060CO)

**Typical profile**

*0 to 10 inches:* Loam  
*10 to 25 inches:* Very channery sandy loam  
*25 to 42 inches:* Channery sandy loam  
*42 to 60 inches:* Very channery loamy sand

**Description of Canyon**

**Setting**

*Landform:* Breaks, knolls, ridges  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Calcareous loamy residuum weathered from sandstone

**Properties and qualities**

*Slope:* 2 to 9 percent  
*Depth to restrictive feature:* 10 to 20 inches to paralithic bedrock  
*Drainage class:* Well drained  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately low to moderately high (0.06 to 0.20 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Calcium carbonate, maximum content:* 15 percent  
*Maximum salinity:* Nonsaline (0.0 to 2.0 mmhos/cm)  
*Available water capacity:* Very low (about 1.7 inches)

**Interpretive groups**

*Land capability classification (irrigated):* 6s  
*Land capability (nonirrigated):* 6s  
*Ecological site:* Limestone Breaks (R067BY060CO)

**Typical profile**

*0 to 3 inches:* Gravelly loam  
*3 to 14 inches:* Gravelly loam

*14 to 60 inches: Bedrock*

**Minor Components**

**Ascalon**

*Percent of map unit: 3 percent*

**Nunn**

*Percent of map unit: 1 percent*

**Haverson**

*Percent of map unit: 1 percent*

**Data Source Information**

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 8, Apr 30, 2009