

# Map Unit Description

Moffat County Area, Colorado

## 81 Forelle-Obadia complex, 1 to 8 percent slopes

### Setting

Elevation: 6400 to 6800 feet  
Mean annual precipitation: 11 to 15 inches  
Mean annual air temperature: 42 to 45 degrees F  
Frost-free period: 75 to 95 days

### Composition

Forelle and similar soils: 40 percent  
Obadia and similar soils: 35 percent

### Description of Forelle

#### Setting

Landform: Hills  
Landform position (two-dimensional): Footslope, toeslope  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Alluvium derived from shale and sandstone

#### Properties and Qualities

Slope: 1 to 8 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  
Sodium adsorption ratio maximum: 5.0  
Available water capacity: High (about 10.7 inches)

#### Interpretive Groups

Land capability (non irrigated): 4c  
Ecological site: Rolling Loam (R034XY298CO)

#### Typical Profile

0 to 6 inches: loam  
6 to 30 inches: clay loam  
30 to 60 inches: sandy clay loam

### Description of Obadia

#### Setting

Landform: Hills  
Landform position (two-dimensional): Toeslope  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Alluvium derived from sandstone and shale

#### Properties and Qualities

Slope: 1 to 8 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Very low or moderately low (0.00 to 0.06 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 10 percent  
Gypsum maximum: 3 percent  
Sodium adsorption ratio maximum: 20.0  
Available water capacity: Moderate (about 8.4 inches)

#### Interpretive Groups

Land capability (non irrigated): 4s  
Ecological site: Claypan (R034XY296CO)

#### Typical Profile

0 to 1 inches: sandy loam

## Map Unit Description

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1 to 13 inches: clay  
13 to 42 inches: clay loam  
42 to 60 inches: sandy clay loam