

# Map Unit Description

Moffat County Area, Colorado

## 201 Tresano-Hiatha-Kandaly association, 2 to 20 percent slopes

### Setting

Elevation: 6000 to 6800 feet  
Mean annual precipitation: 9 to 11 inches  
Mean annual air temperature: 42 to 45 degrees F  
Frost-free period: 75 to 95 days

### Composition

Tresano and similar soils: 35 percent  
Hiatha and similar soils: 30 percent  
Kandaly and similar soils: 15 percent

### Description of Tresano

#### Setting

Landform: Alluvial fans, hills  
Landform position (two-dimensional): Foothlope, toeslope  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Alluvium derived from sandstone and shale

#### Properties and Qualities

Slope: 2 to 12 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: 10 percent  
Gypsum maximum: 0 percent  
Available water capacity: High (about 9.2 inches)

#### Interpretive Groups

Land capability (non irrigated): 6c  
Ecological site: Clayey 9-11" P.Z. (R034XY419CO)

#### Typical Profile

0 to 2 inches: loam  
2 to 28 inches: clay loam  
28 to 60 inches: loam

### Description of Hiatha

#### Setting

Landform: Hills  
Landform position (two-dimensional): Backslope, summit  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Residuum derived from shale

#### Properties and Qualities

Slope: 5 to 20 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): Very low or moderately low (0.00 to 0.06 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 5 percent  
Gypsum maximum: 2 percent  
Sodium adsorption ratio maximum: 7.0  
Available water capacity: Very low (about 2.2 inches)

#### Interpretive Groups

Land capability (non irrigated): 7s  
Ecological site: Alkali Upland (R034XY418CO)

#### Typical Profile

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0 to 2 inches: silty clay  
2 to 14 inches: silty clay  
14 to 18 inches: weathered bedrock

### Description of Kandaly

#### Setting

Landform: Hills  
Landform position (two-dimensional): Summit  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Eolian deposits derived from sandstone

#### Properties and Qualities

Slope: 2 to 12 percent  
Drainage class: Excessively drained  
Capacity of the most limiting layer to transmit water (Ksat): High or very high (6.00 to 20.00 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 5 percent  
Gypsum maximum: 0 percent  
Sodium adsorption ratio maximum: 10.0  
Available water capacity: Low (about 3.6 inches)

#### Interpretive Groups

Land capability (non irrigated): 6e  
Ecological site: Dry Sandy (R034XY434CO)

#### Typical Profile

0 to 3 inches: loamy sand  
3 to 60 inches: loamy sand