

# Map Unit Description

Logan County, Colorado

## 68 Mitchell loam, 0 to 3 percent slopes

### Setting

Elevation: 3600 to 5500 feet  
Mean annual precipitation: 13 to 17 inches  
Mean annual air temperature: 46 to 48 degrees F  
Frost-free period: 120 to 160 days

### Composition

Mitchell and similar soils: 85 percent  
Minor components: 15 percent

### Description of Mitchell

#### Setting

Landform: Fans, flats  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Calcareous loamy alluvium and/or eolian deposits derived from siltstone

#### Properties and Qualities

Slope: 0 to 3 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.57 to 5.95 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 15 percent  
Gypsum maximum: 0 percent  
Available water capacity: High (about 10.7 inches)

#### Interpretive Groups

Land capability (non irrigated): 4c  
Ecological site: Siltstone Plains (R067BY009CO)

#### Typical Profile

0 to 5 inches: loam  
5 to 60 inches: silt loam

### Minor Components

#### Keota

Percent of map unit: 10 percent

#### Epping

Percent of map unit: 5 percent