

# Map Unit Description

Cheyenne County, Colorado

## 45 Sundance loamy sand, 0 to 3 percent slopes

### Setting

Elevation: 4000 to 5000 feet  
Mean annual precipitation: 14 to 14 inches  
Mean annual air temperature: 46 to 52 degrees F  
Frost-free period: 150 to 150 days

### Composition

Sundance and similar soils: 70 percent  
Minor components: 30 percent

### Description of Sundance

#### Setting

Landform: Flats  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Sandy eolian deposits derived from sedimentary rock over loess derived from sedimentary rock

#### Properties and Qualities

Slope: 0 to 3 percent  
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: 15 percent  
Gypsum maximum: 0 percent  
Available water capacity: Moderate (about 9.0 inches)

#### Interpretive Groups

Land capability classification (irrigated): 4e  
Land capability (non irrigated): 4e  
Ecological site: Sandy Plains (R067BY024CO)

#### Typical Profile

0 to 8 inches: loamy sand  
8 to 16 inches: sandy loam, sandy clay loam  
16 to 50 inches: clay loam, silty clay loam  
50 to 60 inches: silt loam

### Minor Components

#### Olney

Percent of map unit: 12 percent

#### Vona

Percent of map unit: 10 percent

#### Bijou

Percent of map unit: 8 percent