

# Map Unit Description

Cheyenne County, Colorado

## 2 Arvada-Deertrail complex, 0 to 1 percent slopes

### Setting

Elevation: 3900 to 5500 feet  
Mean annual precipitation: 12 to 17 inches  
Mean annual air temperature: 48 to 54 degrees F  
Frost-free period: 100 to 160 days

### Composition

Arvada and similar soils: 40 percent  
Deertrail and similar soils: 35 percent  
Minor components: 25 percent

### Description of Arvada

#### Setting

Landform: Alluvial fans, stream terraces, flood plains  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Saline clayey alluvium derived from shale

#### Properties and Qualities

Slope: 0 to 1 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: 2 percent  
Salinity maximum: Very slightly saline or moderately saline (4.0 to 16.0 mmhos/cm)  
Sodium adsorption ratio maximum: 35.0  
Available water capacity: Moderate (about 6.1 inches)

#### Interpretive Groups

Land capability (non irrigated): 7s  
Ecological site: Salt Flat (R067XY033CO)

#### Typical Profile

0 to 2 inches: clay loam  
2 to 15 inches: clay, clay loam, silty clay loam  
15 to 60 inches: clay, clay loam, silty clay

### Description of Deertrail

#### Setting

Landform: Alluvial fans, flood plains, stream terraces  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Clayey alluvium derived from shale

#### Properties and Qualities

Slope: 0 to 1 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately low or moderately high (0.06 to 0.20 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 15 percent  
Gypsum maximum: 2 percent  
Sodium adsorption ratio maximum: 18.0  
Available water capacity: High (about 9.0 inches)

#### Interpretive Groups

Land capability classification (irrigated): 4s  
Land capability (non irrigated): 6s  
Ecological site: Alkaline Plains (R067BY047CO)

#### Typical Profile

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0 to 2 inches: loam  
2 to 7 inches: clay, clay loam, silty clay loam  
7 to 25 inches: clay, clay loam, silty clay loam  
25 to 60 inches: silt loam, silty clay loam, loam

### Minor Components

#### Manzanola

Percent of map unit: 10 percent

#### Nunn

Percent of map unit: 8 percent

#### Firstview

Percent of map unit: 7 percent