

# Map Unit Description

Weld County, Colorado, Northern Part

## 10 Avar-Manzanola complex, 0 to 3 percent slopes

### Setting

Elevation: 4400 to 5600 feet  
Mean annual precipitation: 11 to 15 inches  
Mean annual air temperature: 46 to 52 degrees F  
Frost-free period: 130 to 180 days

### Composition

Avar and similar soils: 45 percent  
Manzanola and similar soils: 40 percent  
Minor components: 15 percent

### Description of Avar

#### Setting

Landform: Swales  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Calcareous loamy alluvium

#### Properties and Qualities

Slope: 0 to 3 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately low or moderately high (0.06 to 0.60 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 15 percent  
Gypsum maximum: 0 percent  
Salinity maximum: Very slightly saline or strongly saline (4.0 to 32.0 mmhos/cm)  
Sodium adsorption ratio maximum: 250.0  
Available water capacity: Moderate (about 6.6 inches)

#### Interpretive Groups

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

#### Typical Profile

0 to 3 inches: fine sandy loam  
3 to 8 inches: clay loam  
8 to 60 inches: sandy clay loam

### Description of Manzanola

#### Setting

Landform: Swales  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Calcareous clayey alluvium

#### Properties and Qualities

Slope: 0 to 3 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Very low or moderately high (0.00 to 0.20 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 5 percent  
Gypsum maximum: 3 percent  
Sodium adsorption ratio maximum: 15.0  
Available water capacity: High (about 9.6 inches)

#### Interpretive Groups

Land capability (non irrigated): 4e  
Ecological site: Clayey Plains (R067BY042CO)

#### Typical Profile

0 to 3 inches: clay loam

## Map Unit Description

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3 to 18 inches: clay  
18 to 48 inches: clay  
48 to 60 inches: clay loam

### Minor Components

#### Heldt

Percent of map unit: 8 percent

#### Mollic halaquepts

Percent of map unit: 7 percent

Landform: Swales