

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

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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