

Weld County, Colorado, Northern Part

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

Map Unit Setting

National map unit symbol: 35yr

Elevation: 4,400 to 5,600 feet

Mean annual precipitation: 11 to 15 inches

Mean annual air temperature: 46 to 52 degrees F

Frost-free period: 130 to 180 days

Farmland classification: Not prime farmland

Map Unit Composition

Avar and similar soils: 45 percent

Manzanola and similar soils: 40 percent

Minor components: 15 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Avar

Setting

Landform: Swales

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous loamy alluvium

Typical profile

H1 - 0 to 3 inches: fine sandy loam

H2 - 3 to 8 inches: clay loam

H3 - 8 to 60 inches: sandy clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat):

Moderately low to moderately high (0.06 to 0.60 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 15 percent

Salinity, maximum in profile: Slightly saline to strongly saline (4.0 to 32.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 250.0

Available water storage in profile: Moderate (about 6.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: C

Ecological site: Salt Flat (R067XY033CO)

Hydric soil rating: No

Description of Manzanola

Setting

Landform: Swales

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Calcareous clayey alluvium

Typical profile

H1 - 0 to 3 inches: clay loam

H2 - 3 to 18 inches: clay

H3 - 18 to 48 inches: clay

H4 - 48 to 60 inches: clay loam

Properties and qualities

Slope: 0 to 3 percent

Depth to restrictive feature: More than 80 inches

Natural drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Very
low to moderately high (0.00 to 0.20 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate, maximum in profile: 5 percent

Gypsum, maximum in profile: 3 percent

Salinity, maximum in profile: Nonsaline to moderately saline (0.0 to
8.0 mmhos/cm)

Sodium adsorption ratio, maximum in profile: 15.0

Available water storage in profile: High (about 9.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 4e

Hydrologic Soil Group: C

Ecological site: Clayey Plains (R067BY042CO)

Hydric soil rating: No

Minor Components

Heldt

Percent of map unit: 8 percent

Hydric soil rating: No

Mollic halaquepts

Percent of map unit: 7 percent

Landform: Swales

Hydric soil rating: Yes

Data Source Information

Soil Survey Area: Weld County, Colorado, Northern Part

Survey Area Data: Version 11, Sep 22, 2016