

## Weld County, Colorado, Northern Part

### 36—Manzanola clay loam, 0 to 3 percent slopes

#### Map Unit Setting

*National map unit symbol:* 35zn

*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:* 140 to 180 days

*Farmland classification:* Farmland of statewide importance

#### Map Unit Composition

*Manzanola and similar soils:* 85 percent

*Minor components:* 15 percent

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

#### Description of Manzanola

##### Setting

*Landform:* Swales, plains, stream terraces

*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 25 inches:* clay

*H3 - 25 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):*

Moderately low to moderately high (0.06 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**

**Avar**

*Percent of map unit:* 15 percent  
*Hydric soil rating:* No

**Data Source Information**

Soil Survey Area: Weld County, Colorado, Northern Part  
Survey Area Data: Version 12, Oct 10, 2017