

## Weld County, Colorado, Northern Part

### 3—Argiustolls-Rock outcrop complex, 0 to 9 percent slopes

#### Map Unit Setting

*National map unit symbol:* 35zf  
*Elevation:* 3,500 to 7,000 feet  
*Mean annual precipitation:* 14 to 18 inches  
*Mean annual air temperature:* 45 to 54 degrees F  
*Frost-free period:* 80 to 150 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Argiustolls and similar soils:* 45 percent  
*Rock outcrop:* 35 percent  
*Minor components:* 20 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Argiustolls

##### Setting

*Landform:* Plains  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Silt loam sandy sandstone

##### Typical profile

*H1 - 0 to 60 inches:* variable  
*H2 - 60 to 64 inches:* unweathered bedrock

##### Properties and qualities

*Slope:* 0 to 9 percent  
*Depth to restrictive feature:* 20 to 60 inches to lithic bedrock  
*Natural drainage class:* Well drained  
*Runoff class:* Medium  
*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  
*Available water storage in profile:* High (about 10.2 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 4e  
*Land capability classification (nonirrigated):* 6s  
*Hydrologic Soil Group:* C  
*Ecological site:* Loamy Plains (R067BY002CO)  
*Hydric soil rating:* No

## Description of Rock Outcrop

### Setting

*Landform:* Plains  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Sandstone

### Typical profile

*H1 - 0 to 60 inches:* unweathered bedrock

### Properties and qualities

*Slope:* 0 to 9 percent  
*Depth to restrictive feature:* 0 inches to paralithic bedrock  
*Runoff class:* High  
*Capacity of the most limiting layer to transmit water (Ksat):* Very low to moderately low (0.00 to 0.06 in/hr)  
*Available water storage in profile:* Very low (about 0.0 inches)

### Interpretive groups

*Land capability classification (irrigated):* 8s  
*Land capability classification (nonirrigated):* 8s  
*Hydrologic Soil Group:* D  
*Hydric soil rating:* No

## Minor Components

### Stoneham

*Percent of map unit:* 10 percent  
*Hydric soil rating:* No

### Olney

*Percent of map unit:* 5 percent  
*Hydric soil rating:* No

### Renhill

*Percent of map unit:* 5 percent  
*Hydric soil rating:* No

## Data Source Information

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