

## Adams County Area, Parts of Adams and Denver Counties, Colorado

### WuE—Wiley-Adena-Renohill complex, 3 to 20 percent slopes

#### Map Unit Setting

*National map unit symbol:* 34xk  
*Elevation:* 4,000 to 5,600 feet  
*Mean annual precipitation:* 12 to 14 inches  
*Mean annual air temperature:* 48 to 55 degrees F  
*Frost-free period:* 120 to 160 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Wiley and similar soils:* 40 percent  
*Adena and similar soils:* 30 percent  
*Renohill and similar soils:* 15 percent  
*Minor components:* 15 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Wiley

##### Setting

*Landform:* Hills  
*Landform position (three-dimensional):* Base slope, side slope, nose slope, head slope  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear

##### Typical profile

*H1 - 0 to 3 inches:* loam  
*H2 - 3 to 13 inches:* clay loam  
*H3 - 13 to 60 inches:* very fine sandy loam

##### Properties and qualities

*Slope:* 9 to 20 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Well drained  
*Runoff class:* Medium  
*Capacity of the most limiting layer to transmit water (Ksat):* Moderately high (0.20 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  
*Available water storage in profile:* High (about 9.9 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 6e  
*Hydrologic Soil Group:* C

*Ecological site:* Loamy Plains (R067BY002CO)  
*Hydric soil rating:* No

## **Description of Adena**

### **Setting**

*Landform:* Plains  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Eolian deposits derived from mixed

### **Typical profile**

*H1 - 0 to 4 inches:* loam  
*H2 - 4 to 22 inches:* silty clay loam  
*H3 - 22 to 60 inches:* silt loam

### **Properties and qualities**

*Slope:* 3 to 5 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 high (0.20 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  
*Available water storage in profile:* High (about 10.1 inches)

### **Interpretive groups**

*Land capability classification (irrigated):* 3e  
*Land capability classification (nonirrigated):* 4e  
*Hydrologic Soil Group:* C  
*Ecological site:* Loamy Plains (R067BY002CO)  
*Hydric soil rating:* No

## **Description of Renohill**

### **Setting**

*Landform:* Plains  
*Landform position (three-dimensional):* Talf  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Residuum weathered from shale

### **Typical profile**

*H1 - 0 to 4 inches:* loam  
*H2 - 4 to 23 inches:* clay  
*H3 - 23 to 28 inches:* clay loam  
*H4 - 28 to 32 inches:* unweathered bedrock

### **Properties and qualities**

*Slope:* 12 to 20 percent  
*Depth to restrictive feature:* 20 to 40 inches to paralithic 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:* 15 percent  
*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Available water storage in profile:* Low (about 4.8 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 6e  
*Hydrologic Soil Group:* D  
*Ecological site:* Loamy Plains (R067BY002CO)  
*Hydric soil rating:* No

#### **Minor Components**

##### **Colby**

*Percent of map unit:* 8 percent  
*Hydric soil rating:* No

##### **Samsil**

*Percent of map unit:* 4 percent  
*Hydric soil rating:* No

##### **Shingle**

*Percent of map unit:* 3 percent  
*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Adams County Area, Parts of Adams and Denver Counties, Colorado

Survey Area Data: Version 13, Sep 22, 2016