

## Weld County, Colorado, Northern Part

### 26—Eckley-Dix-Blakeland complex, 6 to 20 percent slopes

#### Map Unit Setting

*National map unit symbol:* 35z9

*Elevation:* 4,200 to 6,200 feet

*Mean annual precipitation:* 14 to 19 inches

*Mean annual air temperature:* 46 to 52 degrees F

*Frost-free period:* 120 to 160 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Eckley and similar soils:* 35 percent

*Dix and similar soils:* 25 percent

*Blakeland and similar soils:* 20 percent

*Minor components:* 20 percent

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

#### Description of Eckley

##### Setting

*Landform:* Breaks, ridges

*Down-slope shape:* Linear

*Across-slope shape:* Linear

*Parent material:* Gravelly alluvium

##### Typical profile

*H1 - 0 to 8 inches:* sandy clay loam

*H2 - 8 to 14 inches:* gravelly sandy clay loam, sandy clay loam

*H2 - 8 to 14 inches:* gravelly sand, very gravelly sand

*H3 - 14 to 60 inches:*

*H3 - 14 to 60 inches:*

##### Properties and qualities

*Slope:* 6 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 to high (0.20 to 2.00 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:* Moderate (about 7.7 inches)

##### Interpretive groups

*Land capability classification (irrigated):* None specified

*Land capability classification (nonirrigated):* 6e

*Hydrologic Soil Group:* B

*Ecological site:* Gravel breaks (R067BY063CO)

## **Description of Dix**

### **Setting**

*Landform:* Breaks, ridges  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Gravelly alluvium

### **Typical profile**

*H1 - 0 to 12 inches:* gravelly loamy sand  
*H2 - 12 to 24 inches:* very gravelly sand  
*H3 - 24 to 37 inches:* very gravelly coarse sand  
*H4 - 37 to 60 inches:* gravelly sand

### **Properties and qualities**

*Slope:* 6 to 20 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Excessively drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (5.95 to 19.98 in/hr)  
*Depth to water table:* More than 80 inches  
*Frequency of flooding:* None  
*Frequency of ponding:* None  
*Available water storage in profile:* Very low (about 2.6 inches)

### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 6s  
*Hydrologic Soil Group:* A  
*Ecological site:* Gravel breaks (R067BY063CO)

## **Description of Blakeland**

### **Setting**

*Landform:* Breaks, ridges  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Arkosic sandy alluvium and/or arkosic sandy colluvium

### **Typical profile**

*H1 - 0 to 12 inches:* loamy sand  
*H2 - 12 to 60 inches:* loamy sand

### **Properties and qualities**

*Slope:* 6 to 20 percent  
*Depth to restrictive feature:* More than 80 inches  
*Natural drainage class:* Somewhat excessively drained  
*Runoff class:* Low  
*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (5.95 to 19.98 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:* Low (about 4.3 inches)

**Interpretive groups**

*Land capability classification (irrigated):* 6e  
*Land capability classification (nonirrigated):* 6e  
*Hydrologic Soil Group:* A  
*Ecological site:* Deep sand (R067BY015CO)

**Minor Components**

**Manter**

*Percent of map unit:* 8 percent

**Ascalon**

*Percent of map unit:* 7 percent

**Bresser**

*Percent of map unit:* 5 percent

**Data Source Information**

Soil Survey Area: Weld County, Colorado, Northern Part  
Survey Area Data: Version 10, Sep 23, 2014