

## Cheyenne County, Colorado

### 40—Schamber-Stoneham complex, 6 to 35 percent slopes

#### Map Unit Setting

*National map unit symbol:* 354x  
*Elevation:* 4,000 to 6,500 feet  
*Mean annual precipitation:* 12 to 16 inches  
*Mean annual air temperature:* 48 to 52 degrees F  
*Frost-free period:* 130 to 170 days  
*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Schamber and similar soils:* 40 percent  
*Stoneham and similar soils:* 40 percent  
*Minor components:* 20 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

#### Description of Stoneham

##### Setting

*Landform:* Hills  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Alluvium

##### Typical profile

*Ap - 0 to 3 inches:* loam  
*Bt - 3 to 7 inches:* clay loam, sandy clay loam, loam  
*Bt - 3 to 7 inches:* loam, clay loam, sandy clay loam  
*Bt - 3 to 7 inches:*  
*C - 7 to 60 inches:*  
*C - 7 to 60 inches:*  
*C - 7 to 60 inches:*

##### Properties and qualities

*Slope:* 6 to 25 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 (0.60 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:* 15 percent  
*Salinity, maximum in profile:* Nonsaline to very slightly saline (0.0 to 2.0 mmhos/cm)  
*Available water storage in profile:* Very high (about 27.7 inches)

### **Interpretive groups**

*Land capability classification (irrigated):* 6e  
*Land capability classification (nonirrigated):* 6e  
*Hydrologic Soil Group:* B  
*Ecological site:* Loamy Slopes (R067BY008CO)

### **Description of Schamber**

#### **Setting**

*Landform:* Hills  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Alluvium

#### **Typical profile**

*A - 0 to 10 inches:* very gravelly sandy loam  
*C1 - 10 to 18 inches:* very gravelly loamy coarse sand, very gravelly loamy sand  
*C1 - 10 to 18 inches:* very gravelly sand, very gravelly loamy coarse sand  
*C2 - 18 to 60 inches:*  
*C2 - 18 to 60 inches:*

#### **Properties and qualities**

*Slope:* 6 to 35 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):* High (2.00 to 6.00 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:* A  
*Ecological site:* Gravel Breaks (R067BY063CO)

### **Minor Components**

#### **Vona**

*Percent of map unit:* 10 percent

#### **Eckley**

*Percent of map unit:* 5 percent

**Yoder**

*Percent of map unit: 5 percent*

**Data Source Information**

Soil Survey Area: Cheyenne County, Colorado

Survey Area Data: Version 16, Oct 3, 2014