

## Kiowa County, Colorado

### 37—Valent loamy sand, 1 to 15 percent slopes, warm

#### Map Unit Setting

*National map unit symbol:* 2t50c

*Elevation:* 4,000 to 5,500 feet

*Mean annual precipitation:* 14 to 16 inches

*Mean annual air temperature:* 48 to 54 degrees F

*Frost-free period:* 125 to 170 days

*Farmland classification:* Not prime farmland

#### Map Unit Composition

*Valent, warm, and similar soils:* 85 percent

*Minor components:* 15 percent

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

#### Description of Valent, Warm

##### Setting

*Landform:* Hills, ridges

*Landform position (two-dimensional):* Summit, shoulder

*Landform position (three-dimensional):* Head slope, crest

*Down-slope shape:* Convex

*Across-slope shape:* Convex

*Parent material:* Eolian sands derived from sedimentary rock

##### Typical profile

*A - 0 to 7 inches:* loamy sand

*AC - 7 to 16 inches:* loamy sand

*C - 16 to 79 inches:* sand

##### Properties and qualities

*Slope:* 1 to 15 percent

*Depth to restrictive feature:* More than 80 inches

*Natural drainage class:* Excessively drained

*Capacity of the most limiting layer to transmit water (Ksat):* High to very high (5.95 to 19.99 in/hr)

*Depth to water table:* More than 80 inches

*Frequency of flooding:* None

*Frequency of ponding:* None

*Salinity, maximum in profile:* Nonsaline (0.1 to 0.2 mmhos/cm)

*Sodium adsorption ratio, maximum in profile:* 0.1

*Available water storage in profile:* Low (about 4.1 inches)

##### Interpretive groups

*Land capability classification (irrigated):* 6e

*Land capability classification (nonirrigated):* 6e

*Hydrologic Soil Group:* A

*Ecological site:* Deep Sand (R067BY015CO)

*Forage suitability group:* Sandy, Dry (G067BW026CO)

*Other vegetative classification:* DEEP SANDS (067XY015CO\_2)  
*Hydric soil rating:* No

### **Minor Components**

#### **Bijou, warm**

*Percent of map unit:* 5 percent  
*Landform:* Ridges, hills  
*Landform position (two-dimensional):* Backslope  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Linear  
*Across-slope shape:* Convex, linear  
*Ecological site:* Sandy Plains (R067BY024CO)  
*Hydric soil rating:* No

#### **Vona, warm**

*Percent of map unit:* 5 percent  
*Landform:* Hills, ridges  
*Landform position (two-dimensional):* Backslope  
*Landform position (three-dimensional):* Side slope  
*Down-slope shape:* Linear  
*Across-slope shape:* Convex, linear  
*Ecological site:* Sandy Plains (R067BY024CO)  
*Hydric soil rating:* No

#### **Olnest**

*Percent of map unit:* 5 percent  
*Landform:* Hills, interfluves  
*Landform position (two-dimensional):* Footslope, summit  
*Landform position (three-dimensional):* Side slope, interfluve  
*Down-slope shape:* Linear  
*Across-slope shape:* Convex  
*Ecological site:* Sandy Plains (R067BY024CO)  
*Hydric soil rating:* No

## **Data Source Information**

Soil Survey Area: Kiowa County, Colorado  
Survey Area Data: Version 16, Sep 10, 2018