

## Map Unit Description

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions in this report, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named, soils that are similar to the named components, and some minor components that differ in use and management from the major soils.

Most of the soils similar to the major components have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Some minor components, however, have properties and behavior characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. All the soils of a series have major horizons that are similar in composition, thickness, and arrangement. Soils of a given series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Additional information about the map units described in this report is available in other soil reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the soil reports define some of the properties included in the map unit descriptions.

## Teller-Park Area, Colorado, Parts of Park and Teller Counties

### 107—Temdille-Levenmile sandy loams, 3 to 12 percent slopes complex

#### Map Unit Setting

*National map unit symbol:* k0z2

*Elevation:* 8,700 to 9,100 feet

*Mean annual precipitation:* 10 to 16 inches  
*Mean annual air temperature:* 35 to 39 degrees F  
*Frost-free period:* 50 to 80 days  
*Farmland classification:* Not prime farmland

### **Map Unit Composition**

*Temdille and similar soils:* 60 percent  
*Levenmile and similar soils:* 30 percent  
*Minor components:* 10 percent  
*Estimates are based on observations, descriptions, and transects of the mapunit.*

### **Description of Temdille**

#### **Setting**

*Landform:* Bajadas  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear  
*Parent material:* Alluvium

#### **Typical profile**

*A - 0 to 6 inches:* sandy loam  
*AC - 6 to 10 inches:* gravelly loamy coarse sand  
*C1 - 10 to 17 inches:* very gravelly coarse sand  
*C2 - 17 to 33 inches:* gravelly coarse sand  
*C3 - 33 to 51 inches:* very gravelly coarse sand  
*C4 - 51 to 60 inches:* very gravelly coarse sand

#### **Properties and qualities**

*Slope:* 3 to 12 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Somewhat excessively drained  
*Runoff class:* Low  
*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  
*Available water supply, 0 to 60 inches:* Low (about 4.2 inches)

#### **Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 6e  
*Hydrologic Soil Group:* A  
*Ecological site:* R048BY225CO - Mountain Loam 10-16 PZ South  
Park  
*Hydric soil rating:* No

### **Description of Levenmile**

#### **Setting**

*Landform:* Bajadas  
*Down-slope shape:* Linear  
*Across-slope shape:* Linear

*Parent material:* Alluvium

**Typical profile**

*A1 - 0 to 2 inches:* sandy loam  
*A2 - 2 to 5 inches:* sandy loam  
*Bw - 5 to 12 inches:* very gravelly sandy loam  
*C1 - 12 to 32 inches:* sandy loam  
*C2 - 32 to 60 inches:* coarse sandy loam

**Properties and qualities**

*Slope:* 3 to 8 percent  
*Depth to restrictive feature:* More than 80 inches  
*Drainage class:* Well drained  
*Runoff class:* Low  
*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  
*Available water supply, 0 to 60 inches:* Low (about 5.1 inches)

**Interpretive groups**

*Land capability classification (irrigated):* None specified  
*Land capability classification (nonirrigated):* 6e  
*Hydrologic Soil Group:* A  
*Ecological site:* R048BY225CO - Mountain Loam 10-16 PZ South  
Park  
*Hydric soil rating:* No

**Minor Components**

**Gebson**

*Percent of map unit:* 3 percent  
*Landform:* Fan remnants  
*Ecological site:* R048BY225CO - Mountain Loam 10-16 PZ South  
Park  
*Hydric soil rating:* No

**Monahan**

*Percent of map unit:* 3 percent  
*Landform:* Fan remnants  
*Ecological site:* R048BY225CO - Mountain Loam 10-16 PZ South  
Park  
*Hydric soil rating:* No

**Hodden**

*Percent of map unit:* 2 percent  
*Landform:* Breaks  
*Ecological site:* R048BY225CO - Mountain Loam 10-16 PZ South  
Park  
*Hydric soil rating:* No

**Glentivar**

*Percent of map unit:* 2 percent  
*Landform:* Ridges

*Ecological site:* R048BY225CO - Mountain Loam 10-16 PZ South  
Park

*Hydric soil rating:* No

## Data Source Information

Soil Survey Area: Teller-Park Area, Colorado, Parts of Park and Teller Counties  
Survey Area Data: Version 17, Sep 17, 2024