

# Map Unit Description

Arapahoe County, Colorado

## **BvE Bresser-Truckton sandy loams, 5 to 20 percent slopes**

### **Setting**

Landscape: Uplands  
Elevation: 4500 to 6800 feet  
Mean annual precipitation: 12 to 18 inches  
Mean annual air temperature: 46 to 52 degrees F  
Frost-free period: 125 to 180 days

### **Composition**

Bresser and similar soils: 50 percent  
Truckton and similar soils: 35 percent  
Minor components: 15 percent

### **Description of Bresser**

#### **Setting**

Landform: Drainageways, stream terraces  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Noncalcareous sandy alluvium and/or noncalcareous sandy eolian deposits

#### **Properties and Qualities**

Slope: 5 to 20 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.57 to 2.00 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 10 percent  
Gypsum maximum: 0 percent  
Available water capacity: Moderate (about 6.1 inches)

#### **Interpretive Groups**

Land capability classification (irrigated): 6e  
Land capability (non irrigated): 6e  
Ecological site: Sandy Foothill (R049BY210CO)

#### **Typical Profile**

0 to 5 inches: sandy loam  
5 to 16 inches: sandy clay loam, clay loam  
16 to 28 inches: sandy loam, coarse sandy loam, gravelly sandy loam  
28 to 60 inches: loamy coarse sand, gravelly loamy sand

### **Description of Truckton**

#### **Setting**

Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Eolian deposits

#### **Properties and Qualities**

Slope: 5 to 20 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): High (1.98 to 6.00 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 0 percent  
Gypsum maximum: 0 percent  
Available water capacity: Low (about 5.9 inches)

#### **Interpretive Groups**

Land capability (non irrigated): 6e  
Ecological site: Sandy Foothill (R049BY210CO)

#### **Typical Profile**

0 to 5 inches: sandy loam  
5 to 17 inches: sandy loam

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17 to 60 inches: sandy loam

### Minor Components

#### Ascalon

Percent of map unit: 10 percent

#### Nunn

Percent of map unit: 5 percent

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## **NrB Nunn-Bresser-Ascalon complex, 0 to 3 percent slopes**

### **Setting**

Landscape: Uplands  
Elevation: 4500 to 6800 feet  
Mean annual precipitation: 12 to 18 inches  
Mean annual air temperature: 46 to 57 degrees F  
Frost-free period: 115 to 180 days

### **Composition**

Nunn and similar soils: 40 percent  
Bresser and similar soils: 25 percent  
Ascalon and similar soils: 20 percent  
Minor components: 15 percent

### **Description of Nunn**

#### **Setting**

Landform: Playas, streams, stream terraces  
Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Eolian deposits

#### **Properties and Qualities**

Slope: 0 to 3 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately low or moderately high (0.06 to 0.20 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 15 percent  
Gypsum maximum: 0 percent  
Available water capacity: Moderate (about 8.8 inches)

#### **Interpretive Groups**

Land capability (non irrigated): 3c  
Ecological site: Loamy Foothill (R049BY202CO)

#### **Typical Profile**

0 to 8 inches: loam  
8 to 28 inches: clay loam, clay  
28 to 60 inches: sandy clay loam, fine sandy loam, sandy loam

### **Description of Bresser**

#### **Setting**

Down-slope shape: Linear  
Across-slope shape: Linear  
Parent material: Noncalcareous sandy alluvium and/or noncalcareous sandy eolian deposits

#### **Properties and Qualities**

Slope: 0 to 3 percent  
Drainage class: Well drained  
Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.57 to 2.00 in/hr)  
Frequency of flooding: None  
Frequency of ponding: None  
Calcium carbonate maximum: 10 percent  
Gypsum maximum: 0 percent  
Available water capacity: Moderate (about 6.4 inches)

#### **Interpretive Groups**

Land capability classification (irrigated): 2e  
Land capability (non irrigated): 4c  
Ecological site: Loamy Foothill (R049BY202CO)

#### **Typical Profile**

0 to 6 inches: sandy loam  
6 to 26 inches: sandy clay loam, clay loam

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26 to 60 inches: loamy coarse sand, gravelly loamy sand

## Description of Ascalon

### Setting

Down-slope shape: Linear

Across-slope shape: Linear

Parent material: Reworked by wind outwash

### Properties and Qualities

Slope: 0 to 3 percent

Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Moderately high or high (0.60 to 2.00 in/hr)

Frequency of flooding: None

Frequency of ponding: None

Calcium carbonate maximum: 10 percent

Gypsum maximum: 0 percent

Available water capacity: Moderate (about 6.7 inches)

### Interpretive Groups

Land capability classification (irrigated): 2e

Land capability (non irrigated): 3e

Ecological site: Loamy Foothill (R049BY202CO)

### Typical Profile

0 to 6 inches: sandy loam

6 to 17 inches: sandy clay loam, sandy loam

17 to 60 inches: fine sandy loam, loamy fine sand, sandy loam

## Minor Components

### Olney

Percent of map unit: 10 percent

### Aquic ustochrepts

Percent of map unit: 5 percent

Landform: Swales

# Map Unit Description

## Detailed Soil Map Units

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 and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils 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. Other minor components, however, have properties and behavioral 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. The contrasting components are mentioned in the map unit descriptions. 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 indicates the composition of the map unit and selected properties of the components of the unit.

Soils that have profiles that are almost alike make up a "soil series." Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one 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 Data Mart reports, which give properties of the soils and the limitations, capabilities, and potentials for many uses. Also, the narratives that accompany the Soil Data Mart reports define some of the properties included in the map unit descriptions.