# Map Unit Description (Brief, Generated)

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.

The Map Unit Description (Brief, Generated) report displays a generated description of the major soils that occur in a map unit. Descriptions of non-soil (miscellaneous areas) and minor map unit components are not included. This description is generated from the underlying soil attribute data.

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.

# Report—Map Unit Description (Brief, Generated)

## Franklin County, Pennsylvania

**Map Unit:** BkB—Berks channery silt loam, 3 to 8 percent slopes

**Component:** Berks (85%)

The Berks component makes up 85 percent of the map unit. Slopes are 3 to 8 percent. This component is on ridges on hills, mountain slopes on mountains. The parent material consists of residuum weathered from shale and siltstone and/or fine grained sandstone. Depth to a root restrictive layer, bedrock, lithic, is 20 to 40 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 2e. This soil does not meet hydric criteria.

**Component:** Weikert (10%)

Generated brief soil descriptions are created for major soil components. The Weikert soil is a minor component.

**Component:** Brinkerton (5%)

Generated brief soil descriptions are created for major soil components. The Brinkerton soil is a minor component.

**Map Unit:** WeB—Weikert channery silt loam, 3 to 8 percent slopes

**Component:** Weikert (85%)

The Weikert component makes up 85 percent of the map unit. Slopes are 3 to 8 percent. This component is on ridges on hills. The parent material consists of gray and brown acid residuum weathered from shale and siltstone and/or fine grained sandstone. Depth to a root restrictive layer, bedrock, lithic, is 10 to 20 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 3e. This soil does not meet hydric criteria.

**Component:** Berks (9%)

Generated brief soil descriptions are created for major soil components. The Berks soil is a minor component.

**Component:** Bedington (5%)

Generated brief soil descriptions are created for major soil components. The Bedington soil is a minor component.

**Component:** Brinkerton (1%)

Generated brief soil descriptions are created for major soil components. The Brinkerton soil is a minor component.

**Map Unit:** WeC—Weikert channery silt loam, 8 to 15 percent slopes

**Component:** Weikert (85%)

The Weikert component makes up 85 percent of the map unit. Slopes are 8 to 15 percent. This component is on ridges on hills. The parent material consists of gray and brown acid residuum weathered from shale and siltstone and/or fine grained sandstone. Depth to a root restrictive layer, bedrock, lithic, is 10 to 20 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

**Component:** Berks (9%)

Generated brief soil descriptions are created for major soil components. The Berks soil is a minor component.

**Component:** Bedington (5%)

Generated brief soil descriptions are created for major soil components. The Bedington soil is a minor component.

**Component:** Brinkerton (1%)

Generated brief soil descriptions are created for major soil components. The Brinkerton soil is a minor component.

**Map Unit:** WkC—Weikert very channery silt loam, 8 to 15 percent slopes

**Component:** Weikert (85%)

The Weikert component makes up 85 percent of the map unit. Slopes are 8 to 15 percent. This component is on ridges on hills. The parent material consists of gray and brown acid residuum weathered from shale and siltstone and/or fine grained sandstone. Depth to a root restrictive layer, bedrock, lithic, is 10 to 20 inches. The natural drainage class is somewhat excessively drained. Water movement in the most restrictive layer is moderately low. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 4e. This soil does not meet hydric criteria.

**Component:** Berks (7%)

Generated brief soil descriptions are created for major soil components. The Berks soil is a minor component.

**Component:** Ernest (5%)

Generated brief soil descriptions are created for major soil components. The Ernest soil is a minor component.

**Component:** Brinkerton (3%)

Generated brief soil descriptions are created for major soil components. The Brinkerton soil is a minor component.

**Map Unit:** WkD—Weikert very channery silt loam, 15 to 25 percent slopes

**Component:** Weikert (85%)

The Weikert component makes up 85 percent of the map unit. Slopes are 15 to 25 percent. This component is on ridges on hills. The parent material consists of gray and brown acid residuum weathered from shale and siltstone and/or fine grained sandstone. Depth to a root restrictive layer, bedrock, lithic, is 10 to 20 inches. The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 3 percent. Nonirrigated land capability classification is 6e. This soil does not meet hydric criteria.

**Component:** Berks (6%)

Generated brief soil descriptions are created for major soil components. The Berks soil is a minor component.

**Component:** Blairton (6%)

Generated brief soil descriptions are created for major soil components. The Blairton soil is a minor component.

**Component:** Ernest (3%)

Generated brief soil descriptions are created for major soil components. The Ernest soil is a minor component.

**Map Unit:** WkF—Weikert very channery silt loam, 25 to 60 percent slopes

**Component:** Weikert (85%)

The Weikert component makes up 85 percent of the map unit. Slopes are 25 to 60 percent. This component is on ridges on hills. The parent material consists of gray and brown acid residuum weathered from shale and siltstone and/or fine grained sandstone. Depth to a root restrictive layer, bedrock, lithic, is 8 to 20 inches (depth from the mineral surface is 7 to 18 inches). The natural drainage class is well drained. Water movement in the most restrictive layer is moderately high. Available water to a depth of 60 inches (or restricted depth) is very low. Shrink-swell potential is low. This soil is not flooded. It is not ponded. There is no zone of water saturation within a depth of 72 inches. Organic matter content in the surface horizon is about 69 percent. Below this thin organic horizon the organic matter content is about 3 percent. Nonirrigated land capability classification is 7e. This soil does not meet hydric criteria.

**Component:** Ernest (5%)

Generated brief soil descriptions are created for major soil components. The Ernest soil is a minor component.

**Component:** Berks (5%)

Generated brief soil descriptions are created for major soil components. The Berks soil is a minor component.

**Component:** Blairton (5%)

Generated brief soil descriptions are created for major soil components. The Blairton soil is a minor component.

## Data Source Information

Soil Survey Area: Franklin County, Pennsylvania
Survey Area Data: Version 8, Nov 16, 2015