

Technical Soil Descriptions

Technical soil descriptions describe the characteristics or properties (physical and chemical) of the soil including the parent material in which it formed. A pedon, a small three-dimensional area of the soil, serves as the reference point for the technical or soil series description. The soil description compares the soil to similar and other nearby soils and also includes a range of important characteristics. The detailed description method follows standards outlined in the Soil Survey Manual and many of the technical terms used in the description are defined in Soil Taxonomy.

Counties with Published Soil Surveys

Technical soil descriptions are located in the county soil survey descriptive legend.

Counties without Published Soil Surveys

Technical soil descriptions can be found in adjacent county published soil survey descriptive legends or at our [Official Soil Series Description](#) web site.

This section includes:

- **(a) Classification of the soils**

Soil name	Family or higher taxonomic class
Barco-----	Fine-loamy, mixed, thermic Mollic Hapludalfs
Blackoar-----	Fine-silty, mixed, mesic Fluvaquentic Endoaquolls
Bolivar-----	Fine-loamy, mixed, thermic Ultic Hapludalfs
Bremer-----	Fine, smectitic, mesic Typic Argiaquolls
Deepwater-----	Fine-silty, mixed, thermic Typic Argiudolls
Dockery-----	Fine-silty, mixed, nonacid, mesic Aquic Udifluvents
Freeburg-----	Fine-silty, mixed, mesic Aquic Hapludalfs
Gorin-----	Fine, smectitic, mesic Aquertic Chromic Hapludalfs
Haig-----	Fine, smectitic, mesic Vertic Argiaquolls
Hartwell-----	Fine, mixed, thermic Typic Argialbolls
Hartwell-----	Fine, mixed, thermic Typic Argialbolls
Higginsville-----	Fine-silty, mixed, mesic Aquic Argiudolls
Kanima-----	Loamy-skeletal, mixed, nonacid, thermic Alfic Udarents
Lightning Silt Loam-----	Fine, mixed, thermic Chromic Vertic Epiaqualfs
Macksburg-----	Fine, smectitic, mesic Aquic Argiudolls
Mandeville-----	Fine-loamy, mixed, mesic Typic Hapludalfs
Nodaway-----	Fine-silty, mixed, nonacid, mesic Mollic Udifluvents
Norris-----	Loamy, mixed, acid, mesic, shallow Typic Udorthents
Polo-----	Fine, smectitic, mesic Typic Argiudolls
Sampsel-----	Fine, smectitic, mesic Vertic Argiaquolls
Sharpsburg-----	Fine, smectitic, mesic Typic Argiudolls
Snead-----	Fine, mixed, mesic Aquic Hapludolls
Wabash-----	Fine, smectitic, mesic Cumulic Vertic Endoaquolls
Weller-----	Fine, smectitic, mesic Aquertic Chromic Hapludalfs
Winfield-----	Fine-silty, mixed, mesic Oxyaquic Hapludalfs
Zook-----	Fine, smectitic, mesic Cumulic Vertic Endoaquolls

