

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**

Maries County, Missouri
 Classification of the Soils

Soil name	Family or higher taxonomic class
Alred-----	Loamy-skeletal over clayey, siliceous, semiactive, mesic Typic Paleudalfs
Bardley-----	Very-fine, mixed, active, mesic Typic Hapludalfs
Beemont-----	Very-fine, smectitic, mesic Oxyaquic Hapludalfs
Cedargap-----	Loamy-skeletal, mixed, superactive, mesic Cumulic Hapludolls
Cotton-----	Fine, smectitic, mesic Fragiaquic Hapludalfs
Deible-----	Fine, mixed, active, mesic Typic Albaqualfs
Freeburg-----	Fine-silty, mixed, superactive, mesic Aquic Hapludalfs
Gatewood-----	Very-fine, mixed, active, mesic Oxyaquic Hapludalfs
Gladden-----	Coarse-loamy, siliceous, superactive, mesic Dystric Fluventic Eutrudepts
Gravois-----	Fine-silty, mixed, active, mesic Aquic Paleudalfs
Gunlock-----	Fine, mixed, active, mesic Fragic Oxyaquic Hapludalfs
Hacreek-----	Fine-silty, mixed, superactive, mesic Aquic Argiudolls
Hartville-----	Fine, mixed, active, mesic Aquic Hapludalfs
Jamesfin-----	Fine-silty, mixed, superactive, mesic Dystric Fluventic Eutrudepts
Jemerson-----	Fine-silty, mixed, superactive, mesic Typic Hapludalfs
Kaintuck-----	Coarse-loamy, siliceous, superactive, nonacid, mesic Typic Udifluvents
Knobby-----	Loamy-skeletal, mixed, superactive, mesic Lithic Hapludolls
Mariosa-----	Fine, smectitic, mesic Chromic Vertic Albaqualfs
Moko-----	Loamy-skeletal, mixed, superactive, mesic Lithic Hapludolls
Plato-----	Fine, mixed, active, mesic Aquic Fragiudalfs
Racoon-----	Fine-silty, mixed, superactive, mesic Typic Endoaqualfs
Rueter-----	Loamy-skeletal, siliceous, active, mesic Typic Paleudalfs
Secesh-----	Fine-loamy, siliceous, active, mesic Ultic Hapludalfs
Swiss-----	Fine, mixed, semiactive, mesic Oxyaquic Hapludalfs
Union-----	Fine, mixed, active, mesic Oxyaquic Fragiudalfs
Useful-----	Fine, mixed, active, mesic Oxyaquic Hapludalfs