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**

St. Clair County, Missouri
Classification of the Soils

(An asterisk in the first column indicates a taxadjunct to the series. See text for a description of those characteristics that are outside the range of the series.)

Soil name	Family or higher taxonomic class
Barco	Fine-loamy, mixed, thermic Mollic Hapludalfs
Barden	Fine, mixed, thermic Aquollic Hapludalfs
Bardley	Very-fine, mixed, active, mesic Typic Hapludalfs
*Bolivar	Fine-loamy, mixed, thermic Ultic Hapludalfs
Bucklick	Fine, mixed, active, mesic Typic Hapludalfs
Cedargap	Loamy-skeletal, mixed, superactive, mesic Cumulic Hapludolls
Cleora	Coarse-loamy, mixed, thermic Fluventic Hapludolls
Collinsville	Loamy, siliceous, thermic Lithic Hapludolls
Cotter	Fine-silty, mixed, superactive, mesic Pachic Argiudolls
Deepwater	Fine-silty, mixed, thermic Typic Argiudolls
Eldorado	Loamy-skeletal, mixed, thermic Typic Paleudolls
Gasconade	Clayey-skeletal, mixed, superactive, mesic Lithic Hapludolls
Goss	Clayey-skeletal, mixed, active, mesic Typic Paleudalfs
Hartville	Fine, mixed, mesic Aquic Hapludalfs
Hartwell	Fine, mixed, thermic Typic Argialbolls
Hector	Loamy, siliceous, thermic Lithic Dystrochrepts
*Kanima	Loamy-skeletal, mixed, nonacid, thermic Alfic Udarents
Liberal	Fine, mixed, thermic Aquollic Hapludalfs
Moniteau	Fine-silty, mixed, superactive, mesic Typic Endoaqualfs
Newtonia	Fine-silty, mixed, thermic Typic Paleudolls
Osage	Fine, montmorillonitic, thermic Vertic Haplaquolls
Quarles	Fine, mixed, thermic Mollic Ochraqualfs
Summit	Fine, montmorillonitic, thermic Vertic Argiudolls
Verdigris	Fine-silty, mixed, thermic Cumulic Hapludolls