

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**

New Madrid 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 |
|---------------------|--|
| *Acadia----- | Fine, montmorillonitic, thermic Aeric Ochraqualfs |
| Alligator----- | Very-fine, smectitic, thermic Chromic Dystraquerts |
| Bosket----- | Fine-loamy, mixed, active, thermic Mollic HapludalFs |
| Bowdre----- | Clayey over loamy, montmorillonitic, thermic Fluvaquentic Hapludolls |
| Broseley----- | Loamy, mixed, thermic Arenic HapludalFs |
| Cairo----- | Clayey over sandy or sandy-skeletal, smectitic, thermic Vertic Endoaquolls |
| Canalou----- | Coarse-loamy, mixed, thermic Aquic Dystric Eutrochrepts |
| Caruthersville----- | Coarse-silty, mixed (calcareous), thermic Typic Udifluvents |
| *Commerce----- | Fine-silty, mixed, nonacid, thermic Aeric Fluvaquents |
| Cooter----- | Clayey over sandy or sandy-skeletal, montmorillonitic, thermic Fluvaquentic Hapludolls |
| Crevasse----- | Mixed, thermic Typic Udipsamments |
| Dubbs----- | Fine-silty, mixed, active, thermic Typic HapludalFs |
| Dundee----- | Fine-silty, mixed, active, thermic Aeric Ochraqualfs |
| Farrenburg----- | Fine-loamy, mixed, thermic Aquic HapludalFs |
| *Forestdale----- | Fine, smectitic, thermic Typic Endoaqualfs |
| Gideon----- | Fine-loamy, mixed, nonacid, thermic Mollic Fluvaquents |
| Lilbourn----- | Coarse-loamy, mixed, nonacid, thermic Aeric Fluvaquents |
| Orthents----- | Nonacid, thermic Udorthents |
| Psamments----- | Mixed, thermic Typic Udipsamments |
| Roellen----- | Fine, smectitic, thermic Vertic Epiaquolls |
| Sharkey----- | Very-fine, montmorillonitic, nonacid, thermic Vertic Haplaquepts |
| Sikeston----- | Fine-loamy, mixed, thermic Cumulic Haplaquolls |
| Tiptonville----- | Fine-silty, mixed, thermic Oxyaquic Argiudolls |
| Wardell----- | Fine-loamy, mixed, thermic Mollic Ochraqualfs |