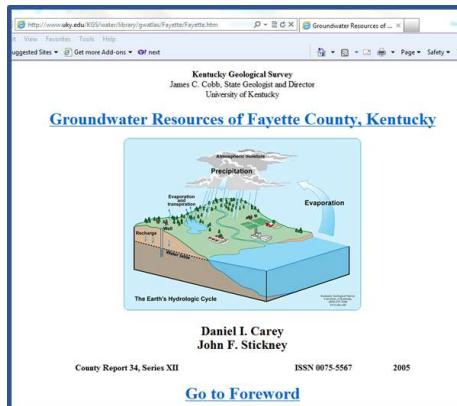


# Kentucky County Groundwater Resources Reports

*The Kentucky Geological Survey has developed a series of county groundwater resources reports that contain general information on hydrology, geology, topography, water supply and usage, and groundwater quality.*

These publications are web-based and can be accessed via a county map, or from a drop-down menu, at [www.uky.edu/KGS/water/library/webintro.htm](http://www.uky.edu/KGS/water/library/webintro.htm).



use, topography, geology, groundwater availability, exploration for groundwater, karst (where applicable), and water quality. The Fayette County version of this page is shown below:

**Foreword**

This report on the groundwater resources of Fayette County was prepared for the Water Resource Development Commission by the Kentucky Geological Survey. Reports were prepared for each of Kentucky's 120 counties. These reports complement other county planning reports of the commission, including strategic water development plans and strategic wastewater treatment plans, and the Kentucky Division of Water's county water-supply plans.

**Foreword**

**Introduction**

**Acknowledgments**

**Overview**

**Water Use**

**Topography of the County**

**Geology of the County**

**Groundwater Availability**

**Exploration for Groundwater**

**Karst**

**Water Quality**

**Maps and Data**

**Additional Reading**

Each groundwater resource report is a compilation of information on hydrology, geology, topography, water supply, and water quality taken from maps, reports, and data collected from 1940 to 2000. The primary way of accessing the information is via the Internet—for example, by linking to the Water Research Library on the Kentucky Geological Survey's Web site. The digital form of this report, and its ability to link to data anywhere on the Internet, makes it a dynamic tool for gathering information.

The current compilation is by no means exhaustive; no doubt valuable data have been overlooked. As new or more-detailed information becomes available, it can be easily linked to this report.

Although this report may be of value to planners and geologists for strategic planning and feasibility studies, it cannot replace field investigation for the development or assessment of site-specific groundwater resources.

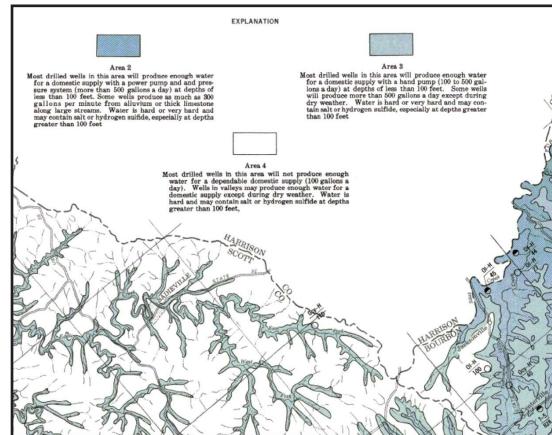
By clicking on the “Go to Foreword” link on the front page of each county report, you will see a blue sidebar listing the contents of the report, including county overview, water

These reports allow you to quickly determine the geology of a site and the likelihood of finding groundwater there. To do this, first click on “Geology of the

County,” then at the bottom of that page, click the “Geologic Map of the County” link to see a generalized geologic map. After locating the geologic unit that your site is on, go back one page to the blue sidebar and click on “Groundwater Availability.” There you will find descriptions of the geologic units, which will indicate the areas where groundwater would most likely be found, including general depths to water, along with how much water you can expect to find.

For more information on the repository call Sarah Arpin at **859-323-0524** or email at [Sarah.Arpin@uky.edu](mailto:Sarah.Arpin@uky.edu).

At the bottom of the “Groundwater Availability” page, you can also find a link to the U.S. Geological Survey Hydrologic Atlas for the county, upon which most of the information in these reports is based. These atlases (called HA’s) each include a generalized geologic map, a generalized lithologic column, and an availability of groundwater map. Part of a groundwater availability map (page 3 of each HA) is shown below:



There are links throughout these reports to other helpful sources of information. Under the “Water Use” heading in the blue sidebar, you can connect directly to the interactive Kentucky Groundwater Data Repository Water Well and Spring Location map with either topographic or aerial photography base map (photography base shown below):

