

Kentucky Groundwater Data Repository

The Kentucky Groundwater Data Repository was initiated in 1990 by the Kentucky Geological Survey under mandate from the Kentucky legislature (KRS 151:035). The repository was established to archive and disseminate groundwater data collected by State agencies, other organizations, and independent researchers.

The repository database currently contains information on more than 92,000 water wells and 5,100 springs, and also 58,000 suites of water-quality analyses (millions of individual analyte results). The water-well data include information such as location, usage, total depth, static water level, casing, and lithology (not available for all wells).

The repository website is
kgs.uky.edu/kgswb/DataSearching/watersearch.asp.

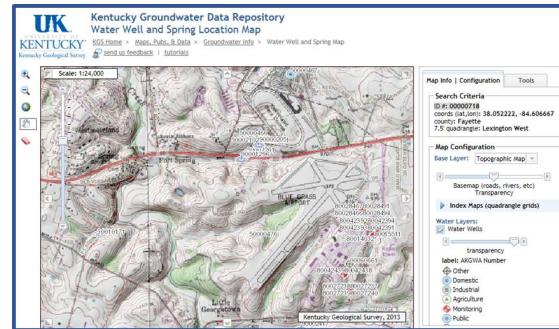
The screenshot shows the homepage of the Kentucky Groundwater Data Repository. At the top, there are links for KGS Home, Contact KGS, KGS Home, UK Home, and a feedback link. Below this, a main title "Groundwater Information Via The Kentucky Groundwater Data Repository" is displayed. A note states that the Kentucky Geological Survey maintains databases of research data that are searchable on the Web. Below this, there are three main search tabs: "Water Wells & Springs", "Groundwater Quality", and "Other Water Information". The "Water Wells & Springs" tab is selected. Under this tab, there are two sections: "Water Well & Spring Records" and "Water Well & Spring Location Map". The "Water Well & Spring Records" section includes a search form for water well and spring data by county, quadrangle, AKGWA number, or radius around a point of interest. The "Water Well & Spring Location Map" section provides a map service to view water well and spring locations and their associated records.

The default tab is “Water Wells & Springs,” but you can also select “Groundwater Quality” to locate sampled water wells and springs or “Other Water Information” for general information, including research currently being conducted by the Water Resources Section of the Survey. The water well and spring search engine is accessed via the first link under the default tab. The front page of this search engine is shown below:

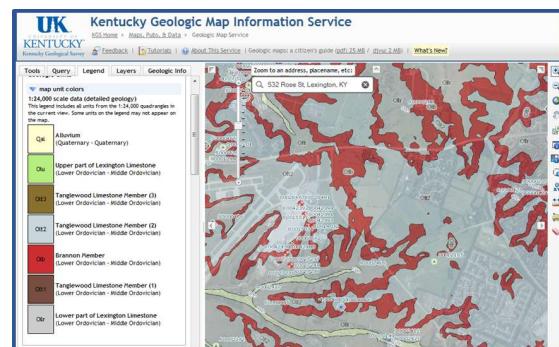
The screenshot shows the "Water Well & Spring Records Database" search interface. At the top, there are links for KGS Home, Contact KGS, KGS Home, UK Home, and a feedback link. Below this, the title "KY Groundwater Data Repository" is displayed. Underneath, there are links for "About AKGWA Number Assignment" and "Learn More About the Water Well and Spring Records". A "Select A Search Method:" dropdown menu is open, showing options like "Search by Quadrangle", "Search by County", "Radius Search (listing coordinates)", "ADVANCED: Radius Search (listing degrees coordinates)", and "ADVANCED: AKGWA Number Search". Below this, there is a "Select One or More COUNTIES to search:" dropdown menu with a list of counties: ADAM, ALLEN, ANDERSON, BALLARD, BARREN, etc. A note says "hold the 'ctrl' key to make multiple selections" and "use an INDEX MAP to make selections". At the bottom, there are checkboxes for "Return only wells/springs with water-quality data available.", "HELP: About Water Quality Analyses Reports", and "Water Quality Standards (pdf file)". There are also fields for "Driller Last Name:", "First Name:", "Driller Certification Number:", and "Owner Last Name:" and "First Name:". A "Search Limit for Water Wells Only:" checkbox is also present.

For more information on the repository, call Sarah Arpin at **859-323-0524** or email at sarah.arpin@uky.edu.

You can select several search methods: by county, 7.5-minute quadrangle, radius search from a known location (latitude/longitude), or inputting a known well identification number. The resulting table will show relevant data for the wells or springs located from the search, including scanned drillers' logs where available. In addition, by selecting the “groundwater map service” link, you can plot the wells and springs on a topographic or aerial photography base map. An example of this feature (with topo graphic base) is shown below:



From the search results table, you can also select the online geologic map service to determine the geology of the site. The same search area is displayed showing geologic contacts, which can be individually selected and additional detailed geologic information will be displayed.



Many other layers can be turned on with the geologic map service, such as geologic faults, coal beds, karst potential, water wells and springs, sinkholes, oil and gas wells, landslide data, and quarries.