

### Searching for KGS data

Finding information about the geology and mineral and water resources of Kentucky has never been easier! KGS is providing Web-based services that broaden the distribution of geologic information; a user-friendly interface gives the general public and geologic professionals up-to-date data, publications, and maps 24 hours a day, 7 days a week. With any Web browser, users can search for geologic data and publications; view descriptive information about requested data; and, in many cases, view and download data, publications and maps.

Information about KGS publications and maps, oil and gas well data, coal borehole data, coal production data, and water well data is currently available for online searching on the KGS Web site at [www.uky.edu/kgs/pubs/lop.htm](http://www.uky.edu/kgs/pubs/lop.htm). The publications, maps, and data can also be accessed from the



Search Databases and Publications

KGS home page at [www.uky.edu/kgs/](http://www.uky.edu/kgs/) by clicking the "Search Databases and Publications" icon. The intent is to

provide a single portal for accessing all publications, maps, and data that KGS is making available online.

### KGS publications and maps

The online search engine for publications and maps was developed to enhance the traditional "List of Publications" that KGS previously published in hard copy at regular intervals. The online search engine provides immediate access to the most up-to-date list of more than 4,000 KGS publications and maps in

a user-friendly format that allows users to search by type of publication (for example, Information Circulars or Bulletins) or by keywords, titles, authors, or dates. Users can also search for out-of-print and nontraditional publications, as well as serial maps (for example, topographic maps).

Many KGS documents have been electronically scanned or prepared as Web pages. The search engine allows users to quickly access the requested documents, if they are available online. This convenience will enable users to save time and money by downloading the online publications and maps.

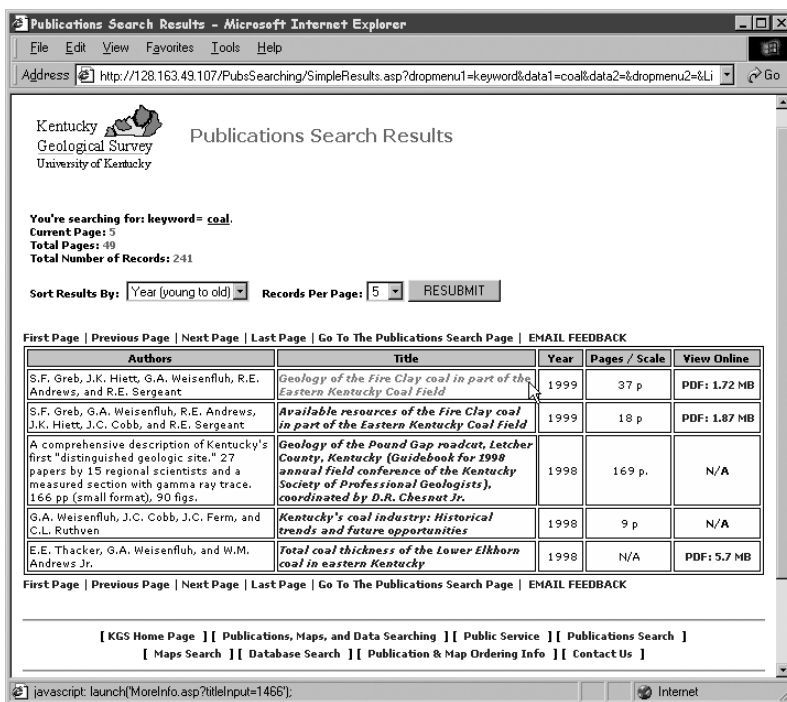
### Data searching

KGS maintains numerous research databases of geologic information on the mineral and water resources of Kentucky. Traditionally, the public gained access to these data through direct contact with KGS personnel (telephone, fax, e-mail, or personal contact), which limited access to normal business hours. Four of the databases (oil and gas well records, coal borehole location data, coal production data, and water well records) are now available

online in a searchable format. This online service provides access more efficiently, 24 hours a day, 7 days a week, from the convenience of the user's office, home, public library, school, or any place with Internet access. Many of the services performed by KGS staff (such as searching for water wells by entering a latitude and longitude point) can now be easily performed online by any interested persons. Some data searches help users narrow requests before they contact KGS for additional information. Many of the data can be obtained online without the user having to contact KGS directly, which is a service that KGS will expand in the future.

### Accessing oil and gas well data and scanned well logs

Users may search for descriptive and location information for more than 157,000 oil and gas wells in Kentucky, and download and view scanned oil and gas well logs, if they are available. In the past, persons interested in obtaining oil and gas well logs had to come to the KGS offices in Lexington or Henderson, and either study the logs or spend time and money making copies. Users across the state and outside Kentucky can now quickly search for and view the oil and gas well logs online, and print them for their own use! Searches can be performed by selecting a county or 7.5-minute quadrangle, or by entering the desired Carter coordinate location. A page displaying the results of the search has pertinent descriptive information for each well (such as farm and owner name, completion data, and penetrated formations), along with a link to the scanned well log, which can be viewed online by downloading a



Publications Search Results - Microsoft Internet Explorer

Address: <http://128.163.49.107/PubsSearching/SimpleResults.asp?dropmenu1=keyword&data1=coal&data2=&dropmenu2=&Li>

Kentucky Geological Survey University of Kentucky

Publications Search Results

You're searching for: keyword= coal  
Current Pages: 5  
Total Pages: 49  
Total Number of Records: 241

Sort Results By: Year (young to old) Records Per Page: 5 RESUBMIT

Authors	Title	Year	Pages / Scale	View Online
S.F. Greb, J.K. Hiatt, G.A. Weisenfluh, R.E. Andrews, and R.E. Sargeant	Geology of the Fire Clay coal in part of the Eastern Kentucky Coal Field	1999	37 p	PDF: 1.72 MB
S.F. Greb, G.A. Weisenfluh, R.E. Andrews, J.K. Hiatt, J.C. Cobb, and R.E. Sargeant	Available resources of the Fire Clay coal in part of the Eastern Kentucky Coal Field	1999	18 p	PDF: 1.87 MB
A comprehensive description of Kentucky's first "distinguished geologic site," 27 papers by 15 regional scientists and a measured section with gamma ray trace. 166 pp (small format), 90 figs.	Geology of the Pound Gap roadcut, Letcher County, Kentucky (Guidebook for 1998 annual field conference of the Kentucky Society of Professional Geologists), coordinated by D.R. Chesnut Jr.	1998	169 p.	N/A
G.A. Weisenfluh, J.C. Cobb, J.C. Ferm, and C.L. Ruthven	Kentucky's coal industry: Historical trends and future opportunities	1998	9 p	N/A
E.E. Thacker, G.A. Weisenfluh, and W.M. Andrews Jr.	Total coal thickness of the Lower Elkhorn coal in eastern Kentucky	1998	N/A	PDF: 5.7 MB

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Results of a publications search.

free browser plug-in. There is also a link to view each well location on an interactive topographic map. When the interactive map link is clicked, another browser window opens, and the selected well location can be viewed, together with the well locations in the surrounding area. Tools in the interactive maps allow a user to zoom in and out, and pan across the map to view all the oil and gas well locations in Kentucky.

## Coal data

Coal boreholes are drilled to obtain subsurface information about areas where coal is located. Persons interested in obtaining detailed stratigraphic information for specific boreholes can narrow their searches from the more than 6,000 records archived at KGS by conducting an online search. Although the detailed borehole data (stratigraphic and lithologic information) can be purchased only by contacting KGS directly, descriptive information about borehole data is available online to allow users to review location, elevation, and other pertinent characteristics of the boreholes prior to ordering. Coal production data from 1790 through 2000 are available online, and a service to allow users to search and retrieve information from more than 33,000 coal thickness measurements will be available soon.

## Water data

The Kentucky Groundwater Data Repository maintained by KGS has data for more than 56,000 water wells in Kentucky. KGS staff respond to about 100 requests for groundwater data per month and provide location information for requested wells. This popular service is now available online, and users can search through records and obtain descriptive and location data for specified wells. Users have the option of searching for data based on county,

**Borehole Search Results**

Search Criteria: PIKEVILLE QUADRANGLE  
 Search Method: nearest (nearest)  
 Upper Bed: HAZARD NO.6  
 Lower Bed: BLUE GEM  
 Current Page: 1  
 Total Pages: 1  
 Total Number of Records: 4  
 Max Records Per Page: 5

Click the button below to download ALL the retrieved records into a comma-delimited ".txt" file:  
**DOWNLOAD TEXT FILE**

NOTE: The ".txt" file contains the geographic coordinates for each borehole in NAD-27 decimal degree, KY North, KY South, and UTM coordinates

Sort Results By: Upper and Lower Bed (Stratigraphical) Records Per Page: 5 RESUBMIT

County	Quadrangle	Unique ID	DDH #	Surface Elevation (feet)	Depth (feet)	Year Drilled	UBCODE	Upper Bed	LBCODE	Lower Bed
PIKE	PIKEVILLE	014PKVLL	LAM-1-82	1680	309	1982	40	WHITESBURG	42	AMBURGY
PIKE	PIKEVILLE	015PKVLL	LAM-7	1910	955	1982	40	WHITESBURG	42	AMBURGY
PIKE	PIKEVILLE	016PKVLL	LAK-583	1629	279	1983	40	WHITESBURG	42	AMBURGY
PIKE	PIKEVILLE	002PKVLL	COB	1920	679	1983	40	WHITESBURG	44	UPPER ELKHORN NO.3
FLOYD	PIKEVILLE	003PKVLL	CO7	2000	790	1983	40	WHITESBURG	45	UPPER ELKHORN NO.2

Results of a coal borehole search.

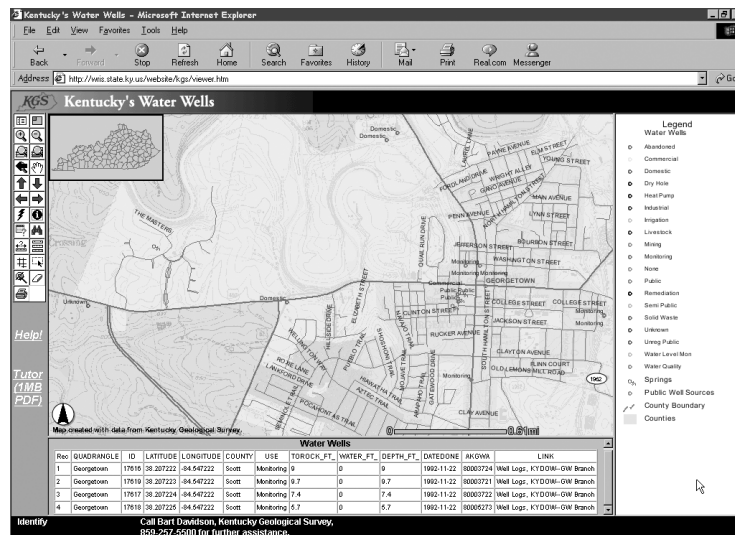
quadrangle, and a specified radius around a given latitude/longitude point. The online search yields descriptive information about a well (AKGWA number, total depth, depth to bedrock, static water level, primary use, etc.) and location information, and users have the option of viewing an individual well location or a selected group of well locations on an interactive map. The requested water well records can be downloaded along with location information for plotting on a map, either manually or using GIS software.

## GIS for everyman: Internet map serving

Using ArcIMS software by ESRI, Inc., KGS has implemented Internet map services for water, oil and gas, coal, and land-use planning. Users can locate data from KGS data repositories by query or map searches, perform spatial analysis, print maps, download data, and link to related data sources.

Developed in cooperation with the Water Resources Information System maintained by the Kentucky Infrastructure Authority, these Internet map servers at [kygeonet.state.ky.us/ims.htm](http://kygeonet.state.ky.us/ims.htm) provide ready access to information necessary for development planning by the private sector; local, regional, State, and Federal agencies; and citizens.

For more information about the Internet map serving, contact Dan Carey at 859.257.5500 ext. 157 or by e-mail at [carey@kgs.mm.uky.edu](mailto:carey@kgs.mm.uky.edu).



An ArcIMS project showing water well information.

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[www.uky.edu/kgs](http://www.uky.edu/kgs)

Visit the KGS online catalog of publications at [www.uky.edu/kgs/pubs/top.htm](http://www.uky.edu/kgs/pubs/top.htm)

Publication Sales Office: 859.257.3896 or 1.877.778.7827

For more information about the online publications and data at KGS, contact Doug Curl at 859.257.5500 ext. 140 or by e-mail at [dcurl@kgs.mm.uky.edu](mailto:dcurl@kgs.mm.uky.edu).