KGS Research Projects Using GIS

Maps and GIS

- **GIS Data**: Links to the best GIS data we know, whether KGS or someplace else.
- **Mapping and GIS Research**: Summaries of KGS GIS mapping and research projects.
- **Search for Published KGS Maps and Data**: Search for KGS publications, maps, and data on oil and gas, water, coal, etc.
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- **Geologic Map Information Service**: Interactive and customizable geologic maps with links to related data.
- **County Land-Use Planning Maps**: Links to KGS land-use planning maps for Kentucky counties.
- **Internet Map Services**: Search for information using interactive maps on the Internet—oil and gas, water, coal, rock cores, geology, land-use and development planning.
- **KGSGeoPortal**: Search for geographic areas in Kentucky and link to data and map web services for the same area.

- **Topographic and Geologic Index Maps**: Index maps and links to data.
- **New Mapping and GIS Products at KGS**: Learn about the latest map and GIS products at KGS.
- **Digitally Vectorized Geologic Quadrangles (DVGQ's)**: 7.5-minute geologic map data for GIS.
GIS and Mapping: Research at KGS

Quaternary Mapping along the Ohio River

KGS geologists, through the USGS STATEMAP program, are mapping Quaternary deposits along and adjacent to the Ohio River to improve existing geologic mapping in the area. These sediments were originally generalized into a small number of mapping units during the geologic quadrangle (GQ) mapping program. Because of their importance for land-use development, geotechnical planning, groundwater supply, and their sensitivity to ground shaking during earthquakes, providing high quality geologic maps of these areas is a priority. KGS personnel are working with scientists from other local, state, and federal agencies to complete this mapping and share results. Mapping has thus far concentrated in Daviess, Henderson, and Hancock counties; mapping is planned in Union, McCracken counties and in northern Kentucky. GIS products will include new digital, vector geologic quadrangle data sets for these areas. Contact Drew Andrews for more information.

Karst Mapping in Kentucky

KGS geologists are cooperating with the Kentucky Division of Water to produce quadrangle maps that show the location of karst springs and the area of the groundwater basins that they drain. Groundwater tracing experiments using fluorescent dyes must be conducted to understand the subsurface drainage networks. This work requires a sustained effort to map the extensive karst areas of Kentucky. The resulting maps and GIS data are an essential tool for land-use planners, conservationists, and developers in this limestone-rich state. Other GIS maps that show the risk of sinkhole collapse and flooding hazards are planned. Contact Jim Currens for more information.

Land-Use Planning Maps

Digital geologic map data sets provide an opportunity to create derivative products that communicate information about geology to users in other fields. One example is land-use maps that were prepared for community planners, classrooms, homeowners, and other non-geologists. These county maps are based on geology, but are classified in terminology that relates to land use. Tables provide information about a variety of development issues, and diagrams and photographs illustrate the technical concepts. An interactive internet map is also available for exploring these data. For more information contact Dan Carey.
Digital Mapping Program

Kentucky is extremely fortunate to have 1:24,000-scale geologic maps for the entire state. These printed maps were prepared during a cooperative project with the U.S. Geological Survey between 1960 and 1978. KGS, with funding from the STATEMAP component of the National Cooperative Geologic Map Program has completed conversion of 707 geologic maps to digital GIS data sets. Products of this project, which began in 1996, are GIS data sets in ESRI shapefile format (DVGQ), new map compilations at the 1:100,000 scale, county geologic maps, and derivative map products for a variety of applications. An interactive Internet map service is available for creating custom geologic maps with overlays of KGS site data. For more information about the digital mapping program contact Warren Anderson.

Finding High-Yield Water Wells Using Remote-Sensing Techniques

KGS geologists are using remote-sensing data in a geographic information system to predict sites with high potential for subsurface groundwater in eastern Kentucky. Much of the well water in this region is associated with subvertical fracture systems. A variety of remote imagery is being used to locate lineament intersections that are potential sites for high-pressure wells. An inclined exploratory drilling method was devised to maximize results for detecting which fractures have greatest water flow. Digital lineament data are available for eastern Kentucky on CDROM. For more information contact Jim Dinger.

Carbon Sequestration

KGS is participating in three Regional Carbon Sequestration projects sponsored by the U.S. Department of Energy to provide information about long term storage opportunities for carbon dioxide emitted from electric power generating facilities. GIS data are collected at an Internet mapping site that integrates maps and databases from research partners into a single Web portal. The data and maps show information about potential geologic sequestration targets oil and gas reservoirs, coal beds, and saline aquifers, as well as carbon sources in the region. This project is using novel techniques to integrate the distributed GIS data for research purposes. Contact Dave Harris for more information.

Kentucky Landscape Maps

KGS personnel have been using GIS data to assist in developing maps of the Kentucky landscape. Visualizing the landscape in different ways is useful for different applications. A new physiographic map of Kentucky is being developed that delineates distinct areas of Kentucky’s topography, based on GIS themes of elevation, slope, relief, and geology. A derivative of this effort was incorporated into a new “Ecoregions Map of Kentucky,” a cooperative effort among State and Federal agencies to identify areas of Kentucky with similar ecological management potential. Contact Drew Andrews for more information.
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Whatever data we need to do GIS

Geospatial Data Library

The Kentucky Geological Survey and other state and federal agencies have electronic maps and GIS data that you can download for your use. The KGS GIS data are in ArcView shapefiles (registered by ESRI). The files were zipped using the WinZip utility. All the KGS datasets, unless explicitly noted, are in latitude and longitude, decimal degrees, NAD 83.

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- **Converter**: To convert latitude/longitude in DMS to decimal degrees.

Contact Information: If you have any questions regarding the GIS information provided by the Kentucky Geological Survey, please contact Dan Carey, telephone (859) 257-5500, fax (859) 257-1147, Kentucky Geological Survey, 228 Mining and Mineral Resources Building, University of Kentucky, Lexington, KY 40506-0107
Welcome to the Kentucky Geography Network, or KYGEONET

This site is the Geospatial Data Clearinghouse for the Commonwealth of Kentucky. A variety of datasets can be located and accessed, static map products can be downloaded, and many Internet Mapping solutions are accessible via the site. Use the powerful geographic explorer to locate maps and geographic data content for a particular part of the state or search based on keyword or theme type.

Featured Service

- Kentucky Stimulus Mapping Portal
  Explore the distribution of ARRA funds in Kentucky!
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Georeferenced Map Imagery

- Statewide index to 7.5-minute maps
- County index to 7.5-minute maps
- Statewide index to 15-minute maps
- Topographic maps: 24k, 7.5-minute quadrangles, Stateplane north and south
- Topographic maps: 24k, 7.5-minute quadrangles, Stateplane single zone
- Topographic maps: 250k quadrangles, UTM zones 16 and 17
- Geologic maps: 24k GQ's, State Plane: 7.5-minute geologic quadrangle maps. (Lithologic symbols) (KGS).

- Geologic maps: 24k GQ's, Ky Single Zone: 7.5-minute geologic quadrangle maps.
- FSA NAIP Digital Ortho Photo Imagery for Kentucky: 1 meter color imagery.
- HS Imagery from KYGEONET: To help find specific location, download County Imagery Index Shapefile
- Wetlands, Landslide, and other map imagery
- Download Kentucky 1-zone projection for ArcView3 and ArcGIS8.
Welcome to the Kentucky Geologic Quadrangle Image Download Center

High Resolution Geologic Map Images in Kentucky Single State Plane Zone, NAD 83, US Survey Feet. Use the map below to select your desired area of interest or Click Here for Direct FTP Access

The maps may be viewed with a free MrSid viewer, or with any software which supports the MrSid format, such as ESRI's ArcView 3.1, 3.2 and ArcInfo 8.x. Click here to download uncollared tiff
Right-Click within the desired quadrangle and select "Save Target As..." in order to download the associated Geologic Quadrangle Image File to your local hard drive.

In order to utilize the SID images in GIS or CAD Software the (".SDW) or "World" file is also needed. The SDW file can be accessed via direct FTP or all can be downloaded in one ZIP file.

[Return to the Main Page]
Welcome to the Kentucky Wetlands Image Download Center

National Wetlands Inventory Map Images in Kentucky Single State Plane Zone, NAD 83, US Survey Feet. Use the map below to select your desired area of interest or Click Here for Direct FTP Access.

The maps may be viewed with a free MrSid viewer, or with any software which supports the MrSid format, such as ESRI's ArcView 3.1, 3.2 and ArcInfo 8.x.

Hosted by: Water Resource Information System
Imagery processed by K nlEPC and KGS.

World Files
Key to Wetlands Symbols
About Wetlands
Production Notes
Questions?
(Documentation is included in the Zip file)
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- Download Kentucky 1-zone projection for ArcView3 and ArcGIS8.
Kentucky Statewide 1 Meter Aerial Imagery (2008)

This data set contains natural color imagery from the National Agriculture Imagery Program (NAIP). NAIP acquires digital ortho imagery during the agricultural growing seasons in the continental U.S. A primary goal of the NAIP program is to make availability of ortho imagery within one year of acquisition. NAIP provides four main products: 1 meter ground sample distance (GSD) ortho imagery rectified to a horizontal accuracy of within +/- 5 meters of reference digital ortho quarter quads (DOQQ's) from the National Digital Ortho Program (NDOP); 2 meter GSD ortho imagery rectified to within +/- 10 meters of reference DOQQs; 1 meter GSD ortho imagery rectified to within +/- 6 meters to true ground; and, 2 meter GSD ortho imagery rectified to within +/- 10 meters to true ground. NAIP imagery may contain as much as 10% cloud cover per tile. This imagery dataset has been tiled using the Kentucky 20K Tiling Scheme and it has been projected into Kentucky Single Zone, NAD 83, US Survey Feet, FIPS 1600.

Content Citation
Title of Content: Kentucky Statewide 1 Meter Aerial Imagery (2008)
Coal has been central to the Martin County economy. From 1879 to 2004, 391 million tons were produced: 202 million from underground and 189 million from surface mining. Production declined from a high of 18.1 million tons in 1985 to 6.4 million tons in 2004. Surface mining has changed the face of Martin County (left). Post-mining land uses have included a federal prison, regional airport, and regional industrial park. Construction on reclaimed areas may require measures to prevent differential settlement of foundations. Aerial photos from the U.S. Department of Agriculture Farm Services Administration, National Aerial Imagery Program, 2004.
Links to More Map and GIS Information

- Kentucky Geography Network
  Downloadable data, static maps, interactive maps, standards
- Kentucky Geological Survey Digital Mapping Program
  Describes the program to convert Kentucky’s 1:24,000 GQ series to GIS format
- Kentucky Highway Maps
  Online maps from the Kentucky Transportation Cabinet
- Other Maps
  Order, view, and download scanned, georeferenced maps
- Water Resource Information System (WRIS)
  Water and sewer infrastructure in Kentucky—data, maps, reports
- Terra Server
  Satellite imagery and aerial photos
- Kentucky Office of Geographic Information (OGI)
  GIS activities in Kentucky
- National Geodetic Survey (NGS)
  Search the NGS site for benchmarks and other geodetic information.
- Geographic Names Information System (GNIS)
  A U.S. Geological Survey site where you can search for the location of more than 2 million physical and cultural geographic features by the name of the feature.
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Elevation data: 24k 10-meter DEM's:

National and international elevation data
Elevation - Digital Elevation Model (DEM)

- Single Zone (ESRI-GRID Format)
- Single Zone (USGS Format)
- North Zone
- North Zone Metadata
- South Zone
- South Zone Metadata
- 30 Meter DEMS (Older Dataset North and South Zone)
- Review Kentucky Elevation Data Program

30 feet post spacing (10 Meter) DEMs in State Plane North and South Coordinate Systems and Kentucky Single Zone
Welcome to the Kentucky Digital Elevation Model Download Center!

ESRI GRID FORMAT (if you want USGS DEM Format Click Here)

Use the map below to select your desired area of interest or Click Here for Direct FTP Access
Right-Click within the desired quadrangle and select "Save Target As..." in order to download the associated Kentucky Digital Elevation Model (DEM) to your local hard drive.

The compressed "Zip" file that is downloaded must be uncompressed using WinZip, PKZip, Stuffit Expander, or other file decompression software.

[Return to the Main Page]
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Right click, save target as
Save to folder, unzip.
Note .e00 extension
7.5’ 10-meter dems download, unzip, import, add to ArcMap, combine
Select feature(s), right-click on layer, Data, Export Data
Topography of Martin County (1992)
Geospatial Data Library

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- Converter to convert latitude/longitude in DMS to decimal degrees.

Contact Information: If you have any questions regarding the GIS information provided by the Kentucky Geological Survey, please contact Dan Carey, telephone (859) 257-5500, fax (859) 257-1147, Kentucky Geological Survey, 228 Mining and Mineral Resources Building, University of Kentucky, Lexington, KY 40506-0107.
## State Boundary Series

Coverages showing political boundaries, map indexes, regions, area development districts (ADDs), etc.

### Description | Click to Download by FTP (file size)
--- | ---
Area Development District boundaries | ADDS.ZIP (0.06 Mb)
Census blocks, 1990 | CENTRACT.ZIP (7 Mb)
Census tracts, 2000 | kytracts2000.zip (1.7 Mb)
Census blocks, 2000 | Census Blocks 2000 by County
Census block groups, 2000 | kyblkgrp2000.zip (7.3 Mb)
County boundaries | From KYGEONET (scroll down)
Kentucky Cities and Populated Places | From KYGEONET (scroll down)
Kentucky state boundary | KY.ZIP (0.09 Mb)

### Kentucky Boundary Series

- **Congressional Districts of Kentucky**: kycongress.zip (0.5 Mb)
- **Kentucky State House Districts**: kyhouse.zip (2.0 Mb)
- **Kentucky Senate Districts**: kysenate.zip (1.3 Mb)
- **Regions of Kentucky**: REGIONS.ZIP (0.06 Mb)
- **Kentucky Zip Codes**: ZIPKY.ZIP (0.72 Mb)
- **7.5-minute quadrangle index grid**: QUADSKY.ZIP (0.04 Mb)
- **15-minute quadrangle grid**: QUADS15.ZIP (0.01 Mb)
- **100,000-scale USGS map grid index**: MAPS100K.ZIP (0.003 Mb)
- **250,000-scale index grid**: MAPS250K.ZIP (0.004 Mb)
Click on a county or use the dropdown list below

Select a County...
## HTML Image Map Creator

**Summary**

This command button makes an HTML image map (a clickable map) from a polygon layer. It works by points of where you want to make each imagemap polygon from.

If you select a polygon layer, the following fields will be added to the table of contents:

- **NAME**: The name of the polygon.
- **HREF**: The URL that opens when the polygon is clicked.
- **NAME** is the text that shows up when the pointer hovers over a polygon.
- **Output**: A JPEG and HTML page.

- **This is a DLL** - you can add it to ArcGIS through the Customize window and the code to compile it.

### Details:

<table>
<thead>
<tr>
<th>Author</th>
<th>kevin.robbie.chao</th>
</tr>
</thead>
<tbody>
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</table>

**Quick Searches**

- **Top ten ArcScripts**
  - The ten most popular ArcScripts.

- **Latest ArcScripts**
  - The most recent ArcScripts.

- **View all ArcScripts**
  - A complete list of all ArcScripts.

### My ArcScripts

- **Upload a script** (login required)
  - Do you want to share a script with the ESRI user community? Upload it here!

- **Edit my scripts** (login required)

---

How to add custom commands and toolbars

1. Click the Tools menu and click Customize.
2. Click Add from file.
3. Navigate to the file containing the custom command.
4. Click the file and click Open.
5. Click OK.
6. Click the Toolbars tab.
7. Check the custom toolbar that was added or check the toolbar to which you want to add the custom command.
8. Click the Commands tab.
9. Click the custom command’s category in the Categories list.
10. Click and drag the command from the Commands list and drop it on the toolbar.
11. Click Close.

Tip
- If a search string is entered in the 'Show commands containing' text field, you may not see the newly added command(s) immediately after dismissing the Added Object dialog. Cancel the command list filtering by clearing the search string in this text field.
Click on a county or use the dropdown list below.
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# State Geology Series

**The Logic of Geologic Maps**

Various geologic coverages of the state

<table>
<thead>
<tr>
<th>Description of Coverage</th>
<th>Click to Download by FTP (file size)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Kentucky Mine Mapping Information System</td>
<td>Mining FTP download page</td>
</tr>
<tr>
<td>Coal Exploration Sites</td>
<td>kymine.zip (0.33 Mb)</td>
</tr>
<tr>
<td>Ecoregions of Kentucky</td>
<td>kyegeo.zip (0.13 Mb)</td>
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<tr>
<td>Ecoregions of the U.S. (level III)</td>
<td>useco3.zip (3.1 Mb)</td>
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<td>Ecoregions of the U.S. (level III-IV)</td>
<td>useco4.zip (12.5 Mb)</td>
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<tr>
<td>Simplified Geology of Kentucky</td>
<td>kyegeo.zip (4.2 Mb)</td>
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<tr>
<td>Geologic faults--1:24,000</td>
<td>kyfaults24k.zip (2.77 Mb)</td>
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<tr>
<td>Geologic Structure Contours--1:24,000</td>
<td>kystructure.zip (40 Mb)</td>
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<tr>
<td>Karst geology--1:500,000</td>
<td>karst500k.zip (1.1 Mb)</td>
</tr>
<tr>
<td>Kentucky Quarries</td>
<td>kyquarry.zip (0.01 Mb)</td>
</tr>
<tr>
<td>Oil and Gas Wells</td>
<td>Download the shape file</td>
</tr>
<tr>
<td>Kentucky Soils</td>
<td>Soils by County (2.22 Mb)</td>
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<td>Soil Survey Point Observations</td>
<td>nrcs sf ky PARTIAL 020805.zip (0.9 Mb)</td>
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<tr>
<td>Sinkholes in Kentucky</td>
<td>Sinkhole Data</td>
</tr>
<tr>
<td>1-minute Carter coordinate grid</td>
<td>CARTER1 ZIP (1.4 Mb)</td>
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<tr>
<td>5-minute Carter coordinates</td>
<td>CARTER5 ZIP (0.07 Mb)</td>
</tr>
</tbody>
</table>
Digital geology at 1:24,000 for entire state
County geology maps
Download Sinkhole Data by County

SINKHOLE DATA BY COUNTY

No mapped sinks in these counties

To download, click on the map or use the dropdown list below

Select a County ...

DOWNLOAD FULL DATA SET
(32.4 Mb FILE!!!)
METADATA
Over 100,000 mapped sinkholes
Less than 50 square feet to 12 square miles
Mapping underground flow paths in karst with ArcGIS
Mapping Karst Geology

KARST OCCURRENCE IN KENTUCKY
Randall L. Paylor and James C. Curren

EXPLANATION:
- Dark blue: Extensive to moderate with high potential for development
- Light blue: Moderate to limited with moderate potential for development
- Light gray: Limited or occasional with limited potential for development

Kentucky's karst regions are generally marked by limestone and dolomite, which form the bedrock. The landscapes are characterized by sinkholes, caves, and springs. The karst regions are prone to rapid subsidence and sinkhole formation. The distribution of karst features is influenced by the underlying geology and topography. The map highlights areas with significant karst features, indicating potential for development and management considerations.
Geospatial Data Library

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## State Hydrology Series

### Hydrologic and watershed coverages

<table>
<thead>
<tr>
<th>Descriptions</th>
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<td>Public Water and Sewer (KIA)</td>
</tr>
<tr>
<td>14-DIGIT HUCS</td>
<td>Download 14-digit HUCS</td>
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<tr>
<td>Hi-res National Hydrography Data</td>
<td>High-res data by basin (up to 22 Mb)</td>
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<tr>
<td>Hi-res National Hydrography Data</td>
<td>NHD 100k Streams by county (up to 280 Mb)</td>
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<td>Hi-res National Hydrography Data</td>
<td>NHD 24k Streams by county (up to 1.7 Mb)</td>
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<td>Hi-res National Hydrography Data</td>
<td>NHD 24k Waterbodies by county (up to 1.9 Mb)</td>
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<tr>
<td>TMDL data from KY DOW</td>
<td>TMDL data from KY DOW (KYGEONET)</td>
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<td>USGS Peak Flow Stream Data (KYGEONET)</td>
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<tr>
<td>About FEMA Q3 Flood Data</td>
<td>Flood Data (FEMA Q3) (KYGEONET)</td>
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<td>Source-Water Protection Areas</td>
<td>Source-Water Protection Areas (KYGEONET)</td>
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<tr>
<td>305(b) Streams - Overall Use Support</td>
<td>Download 305(b) Streams - Overall Use Support (5.6 Mb)</td>
</tr>
<tr>
<td>305(b) Streams - Swimming</td>
<td>Download 305(b) Streams - Swimming (1.4 Mb)</td>
</tr>
<tr>
<td>305(b) Streams - Fish Tissue Consumption</td>
<td>Download 305(b) Streams - Fish Tissue Consumption (0.56 Mb)</td>
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<tr>
<td>305(b) Streams - Drinking Water</td>
<td>Download 305(b) Streams - Drinking Water (0.19 Mb)</td>
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<tr>
<td>305(b) Streams - Aquatic Life</td>
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<tr>
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<tr>
<td>Water Wells</td>
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<td>Groundwater Sensitivity Regions</td>
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<td>Karst Dye Traces</td>
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<tr>
<td>Kentucky Sinkhole Drainage Areas</td>
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### Additional Resources

- 305(b) Streams - Fish Tissue Consumption
- 305(b) Streams - Drinking Water
- 305(b) Streams - Aquatic Life
- Springs
- Water Wells
- Groundwater Sensitivity Regions
- Karst Dye Traces
- Kentucky Sinkhole Drainage Areas
- Catalog of Hydrologic Units
- 305(b) Lakes
- Regulated Dams
- Wetlands Inventory
- NWIP Wetlands by County
- KDFWR wetlands (KYGEONET)
Download NHD 24K Streams

Click on a county or use the dropdown list below
Download NHD 24K Waterbodies

Click on a county or use the dropdown list below

Select a County ...

DOWNLOAD FULL DATA SET
(45.5 Mb FILE!!!)
Download NWIP Wetlands Data by County

Click on a county or use the dropdown list below

Select a County...
Water quality assessments, 305b
Download 14-Digit HUCs

Click on basin of interest to begin download
<table>
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<th>ACRES</th>
<th>HI</th>
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<td>3.4</td>
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</table>

14- DIGIT HYDROLOGIC UNITS
Slope from DEMs
Geospatial Data Library

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Other sites related to Kentucky GIS:

- Kentucky Office of Geographic Information Systems
- USGS—Kentucky
- Kentucky Geography Network
- Kentucky Infrastructure Authority
- Kentucky Department of Fish and Wildlife Information System
Transportation

- Statewide (Shapefile)
- State Roads Metadata
- Local Roads Metadata

KY Transportation Cabinet's State maintained and local road centerlines.

You will have to download all three files with .shp, .shx, and .dbf extensions to get one shapefile.

NOTE: You will find both a regular shapefile and a measured shapefile. The measured shapefile is for dynamic segmentation purposes. It will not contain all the attributes of a regular shapefile.

If you experience any problems with downloading data, please contact the Division of Geographic Information at (502) 564-1450.

Explore the Kentucky Geography Network to find a variety of GIS resources related to the Commonwealth.
120 COUNTY MAPS IN 5 YEARS, ~ ONE EVERY TWO WEEKS ONLY POSSIBLE WITH KENTUCKY DATA AND GIS
Copy from one map layout to another
LAND-USE PLANNING TABLE DEFINITIONS

FOUNDATION AND EXCAVATION
The terms "earth" and "rock" excavation are used in the engineering sense; earth can be excavated by hand tools, whereas rock requires heavy equipment or blasting to remove.

LIMITATIONS
Slight—A slight limitation is one that commonly requires some corrective measure but can be overcome without a great deal of difficulty or expense.
Moderate—A moderate limitation is one that can normally be overcome but the difficulty and expense are great enough that completing the project is commonly a question of feasibility.
Severe—A severe limitation is one that is difficult to overcome and commonly is not feasible because of the expense involved.

LAND USES
Septic tank disposal system—A septic tank disposal system consists of a septic tank and a filter field. The filter field is a subsurface tile system laid in such a way that effluent from the septic tank is distributed with reasonable uniformity into the soil.
Residences—Ratings are made for residences with basements because the degree of limitation is dependent upon ease and required depth of excavation. For example, excavation in limestone has greater limitation than excavation in shale for a house with a basement.
Highways and streets—Refers to paved roads in which cuts and fills are made in hilly topography, and considerable work is done preparing subgrades and bases before the surface is applied.
Access roads—These are low-cost roads, driveways, etc., usually surfaced with crushed stone or a thin layer of blacktop. A minimum of cuts and fills are made, little work is done preparing a subgrade, and generally only a thin base is used. The degree of limitation is based on year-around use and would be less severe if not used during the winter and early spring. Some types of recreation areas would not be used during these seasons.
Light industry and malls—Ratings are based on developments having structures or equivalent load limit requirements of three stories or less, and large paved areas for parking lots. Structures with greater load limit requirements would normally need footings in solid rock, and the rock would need to be core drilled to determine the presence of caverns, cracks, etc.
Intensive recreation—Athletic fields, stadiums, etc.
Paste, set page width
Maps and GIS

Kentucky Geological Survey
University Of Kentucky

Search KGS | Contact KGS | KGS Home | UK Home

KGS Home

Maps and GIS

- **GIS Data**: Links to the best GIS data we know, whether KGS or someplace else.
- **Mapping and GIS Research**: Summaries of KGS GIS mapping and research projects.
- **Search for Published KGS Maps and Data**: Search for KGS publications, maps, and data on oil and gas, water, coal, etc.
- **Map and GIS Information**: Links to all kinds of maps, GIS data, and GIS information.
- **Staff**: List and e-mail contacts for everyone in the KGS Geospatial Analysis Section.

---

**Geologic Map Information Service**
Interactive and customizable geologic maps with links to related data.

**County Land-Use Planning Maps**
Links to KGS land-use planning maps for Kentucky counties.

**Internet Map Services**
Search for information using interactive maps on the Internet—oil and gas, water, coal, rock cores, geology, land-use and development planning.

**KGSGeoPortal**
Search for geographic areas in Kentucky and link to data and map web services for the same area.

---

**Topographic and Geologic Index Maps**
Index maps and links to data.

**New Mapping and GIS Products at KGS**
Learn about the latest map and GIS products at KGS.

**Digitally Vectorized Geologic Quadrangles (DVGQ's)**
7.5-minute geologic map data for GIS.

The external links in these pages may open in a new browser window. If a new browser window has been opened and the Back button is not available, close the new window to return to these KGS pages.
Maps and GIS Kentucky Geological Survey site

Kentucky Geological Survey
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KGS Home
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- **Staff**: List and e-mail contacts for everyone in the KGS Geospatial Analysis Section.

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**Geologic Map Information Service**
Interactive and customizable geologic maps with links to related data.

**County Land-Use Planning Maps**
Links to KGS land-use planning maps for Kentucky counties.

**Internet Map Services**

- **Internet Map Services**: Search for information using interactive maps on the Internet—oil and gas, water, coal, rock cores, geology, land-use and development planning.
- **KGSGeoPortal**: Search for geographic areas in Kentucky and link to data and map web services for the same area.

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**Topographic and Geologic Index Maps**
Index maps and links to data.

**New Mapping and GIS Products at KGS**
Learn about the latest map and GIS products at KGS.

**Digitally Vectorized Geologic Quadrangles (DVGQ’s)**
7.5-minute geologic map data for GIS.

The external links in these pages may open in a new browser window. If a new browser window has been opened and the Back button is not available, close the new window to return to these KGS pages.

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