Association of American State Geologists

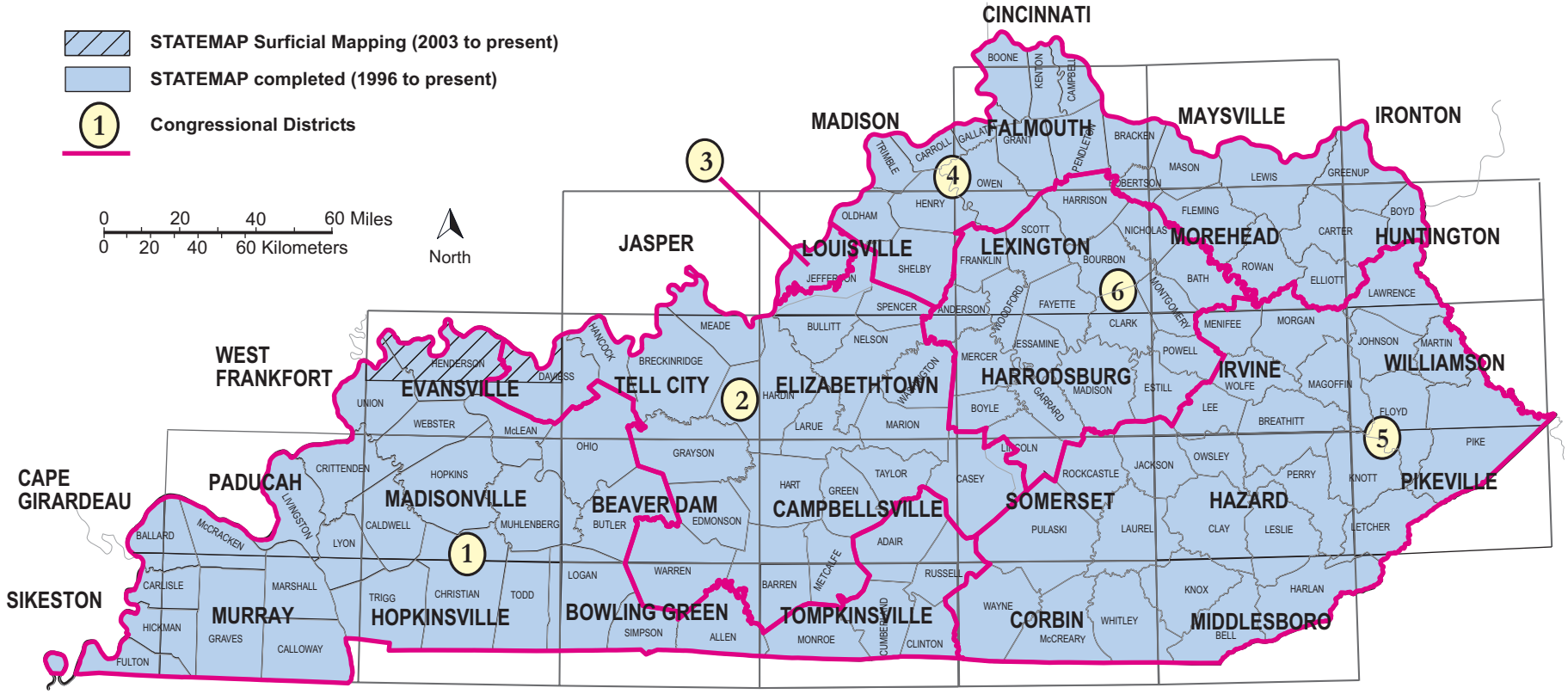
Kentucky Geological Survey

United States Geological Survey

National Cooperative Geologic Mapping Program

STATEMAP Component: States compete for federal matching funds for geologic mapping

KENTUCKY



Contact Information

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http://www.uky.edu/KGS/

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National Cooperative Geologic Mapping Project							
Year	**Project Title**		**State Dollars**		**Federal Dollars**		**Total**
1996-2005	Digital Geologic Mapping Program	$	2,014,618	$	1,830,011	$	3,844,629
Federal State Cooperative Geologic Mapping 1960-1978							
1960-1978	KGS-USGS Kentucky Areal Geologic Mapping Program	$	10,025,800	$	10,901,700	$	20,927,500

Kentucky accomplished a major milestone in geologic mapping in 2004 by converting all 707 geologic quadrangles into digital format. Kentucky was the only state of significant size to have the original geological mapping completed in 1978 and Kentucky is also the first to have complete digital geological map coverage at a scale of 1:24,000 (1 inch on the map corresponds to 2,000 feet on the ground). These digital data are being compiled into 1:100,000 quadrangles as required by the National Cooperative Geologic Mapping Program. The Kentucky Geological Survey website describes the program (http://www.uky.edu/KGS/mapping/mapping.html). The availability of digital geologic maps in Kentucky will be of great benefit for years to come for economic development and exploration of natural resources, environmental and groundwater protection and hazards mitigation.

Statement of Outcome: "Kentuckians now have badly needed information to make well-informed decisions regarding the development of our natural resources, protection of our environment as well as planning for our economic growth. The mapping information available through the KGS is used in transportation planning across the state, environmental cleanup projects as well as by all of the natural resource agencies within state government. Municipalities rountinely use this data to guide their growth and planning efforts and those dependent on groundwater resources heavily rely on this data to protect drinking water supplies." September 24, 2004, Susan C. Bush, Commissioner, Environmental and Public Protection Cabinet, Department of Natural Resources, Commonwealth of Kentucky.

There is now a great need for these maps to be made publicly available in digital form for use in computer programs and KGS is working toward the developement of a Geoportal in which many types of earth science information will be available to the public (http://kgsweb.uky.edu/main.asp). The Kentucky STATEMAP program, as a component of the National Cooperative Geologic Mapping Act (NCGMA), is proud to have completed this initial phase of digital geologic mapping to facilitate the use of geologic maps in society during the 21st century.

1Bhagwat, S. B., and Ipe, V. C., 2000, Economic benefits of detailed geologic mapping in Kentucky: Illinois State Geological Survey, Special Report 3, 39 p.

January, 2005