

**SUMMARY OF STATEMAP
GEOLOGIC MAPPING PROGRAM IN KENTUCKY**

National Cooperative Geologic Mapping Act of 1992				
Project	Year	State Dollars	Federal Dollars	Total
DIGITAL GEOLOGIC MAPPING PROGRAM 1:100,000 Scale	1996-97	\$ 117,679.00	\$ 50,000.00	\$ 167,679.00
	1997-98	\$ 108,959.00	\$ 105,445.00	\$ 214,404.00
	1998-99	\$ 133,852.00	\$ 125,000.00	\$ 382,083.00
	1999-00	\$ 100,000.00	\$ 100,000.00	\$ 200,000.00
	2000-01	\$ 100,000.00	\$ 100,000.00	\$ 200,000.00
	2001-02	\$ 370,274.00	\$ 364,442.00	\$ 734,716.00
	2002-03	\$ 300,004.00	\$ 300,000.00	\$ 600,004.00
	2003-04	\$ 333,099.00	\$ 234,358.00	\$ 567,457.00
	2004-05	\$ 245,350.00	\$ 245,350.00	\$ 490,700.00
	Totals		\$ 1,809,217.00	\$ 1,624,595.00
Federal State Cooperative Geologic Mapping Program 1960-1978				
KGS-USGS KENTUCKY GEOLOGIC MAPPING PROGRAM				
	1960-1978	\$ 10,025,800.00	\$ 10,901,700.00	\$ 20,927,500.00

Kentucky is the only state of significant size to be completely mapped geologically at a scale of 1:24,000 and serves as an example to the Nation of the value of geologic mapping. The availability of geologic maps in Kentucky has been a great benefit for economic development. It also has helped avoid damage resulting from natural hazards, as well as protect ground water and the environment. Geologic Maps are public goods. As such, they benefit all members of society and are available to everyone. In 1999, a joint project by the Kentucky Geological Survey and the Illinois State Geological Survey produced the first economic evaluation of geologic maps as public goods. Since 1972, a total of 81,000 geologic quadrangle maps for Kentucky have been sold. The cost of the geologic mapping program in Kentucky was an estimated \$90 million in 1999 dollars. The value of the maps was calculated to range from a minimum, of \$2.25 billion to a maximum of \$3.53 billion in 1999 dollars. Based on the conservative estimate of the minimum value of \$2.25 billion, Kentucky experienced a net gain from the mapping program of \$2.16 billion in 1999 dollars². This is a remarkable return on the investment by Federal and State Governments in geologic mapping. There is now a great need for these maps to be made publicly available in digital form for use in computer programs. The Kentucky STATEMAP program, as a component of the National Cooperative Geologic Mapping Act (NCGMA), is converting geologic maps in to computer format to facilitate their use in society during the 21st century.

¹Cressman, E. R., and Noger, M. C., 1981, Geologic Mapping of Kentucky-A history and evaluation of the Kentucky Geological Survey-U. S. Geological Survey Mapping Program, 1960-1978: U. S. Geological Survey Circular 801, 22p.

²Bhagwat, S. B., and Ipe, V. C., 2000, Economic benefits of detailed geologic mapping in Kentucky: Illinois State Geological Survey, Special Report 3, 39 p.
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