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Geological Survey

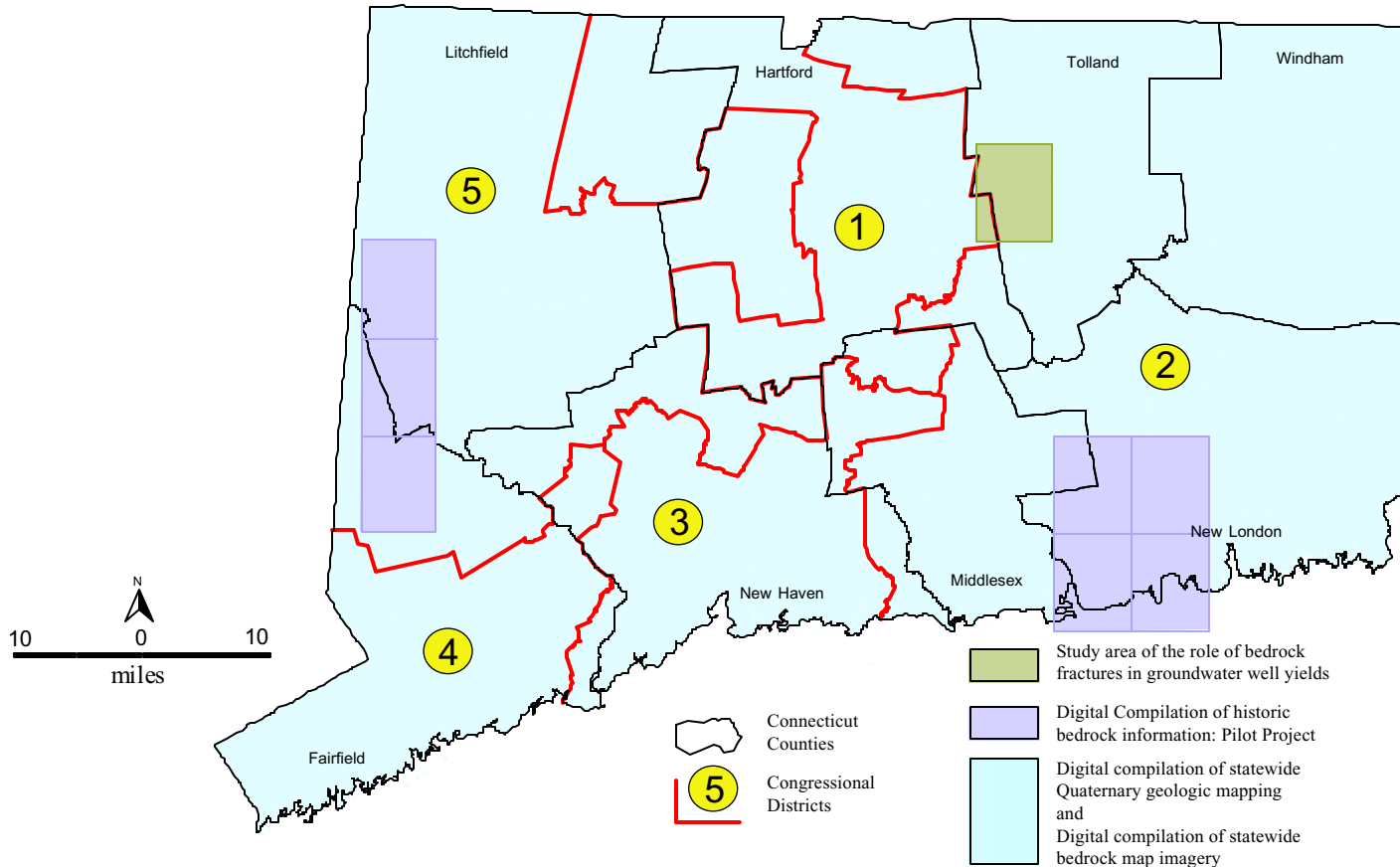


Connecticut Geological and Natural History Survey

National Cooperative Geologic Mapping Program

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

CONNECTICUT



Contact Information

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SUMMARY OF STATEMAP GEOLOGIC MAPPING PROGRAM IN CONNECTICUT

Federal Fiscal Year	Project Title	Federal Dollars	State Dollars	Total Project Dollars
1996	Geologic Mapping of the Rockville quadrangle, 1:24,000 scale	\$30,000	\$30,000	\$60,000
	Quaternary Geologic Mapping (Digital Compilation Project) 1:24,000 and 1:100,000 scales	59,459	69,522	128,981
2001	Digital Compilation of Historic Bedrock Information and National Geologic Map Database Cooperative	59,719	60,735	120,454
2002	Digital Compilation of Historic Bedrock Mapping for Connecticut. Year 1: Geologic Imagery	85,610	85,863	171,473
	TOTALS	\$234,788	\$246,120	\$480,908

Benefits and Uses of Geologic Maps

Connecticut is faced with high population density, sprawl, and increasing demands on finite land and water resources. Effective strategies for managing attendant economic, political, and quality of life issues require access to timely, relevant geologic information. Our STATEMAP initiatives have been designed to provide direct support to policy development in the areas of water supply and aggregate resource utilization because these potentially competing interests are critical to the Connecticut's future economic and environmental well being. Our 1996 Digital Compilation Project for Quaternary Geology has made detailed statewide aggregate and unconsolidated aquifer information available and accessible. In 2001, a multi-year effort to understand the water-bearing characteristics of Connecticut's bedrock was initiated, and is continuing.

Project Descriptions

Geologic mapping of the Rockville Quadrangle was conducted to help determine the role of bedrock fractures in ground-water well yields. A newly created database of located water wells was used to analyze trends in both localized and regional ground-water flow within the bedrock.

The digital compilation of the Quaternary Geologic Mapping involved the development of a state scale (1:100,000) digital map from quadrangle (1:24,000) scale compilation sheets. Both of these mapping projects provide useful tools for assessment of Connecticut ground-water resources and aquifer protection.

The Digital Compilation of Historic Bedrock Information will produce a comprehensive desktop resource for bedrock quadrangle mapping. A fully indexed set of CDs are being developed for an eight quadrangle area as a prototype to be expanded statewide.

Geologic Imagery for all bedrock quadrangles is being compiled and geo-referenced to provide a statewide image base for Connecticut geology compatible with GIS analyses and field mapping requirements. (This is the first year of the statewide expansion of Digital Compilation of Historic Bedrock Mapping.)

These and other digital geologic and natural-resource data are available through the Connecticut Geological and Natural History Survey, Environmental and Geographic Information Center, Department of Environmental Protection <http://dep.state.ct.us/store/>