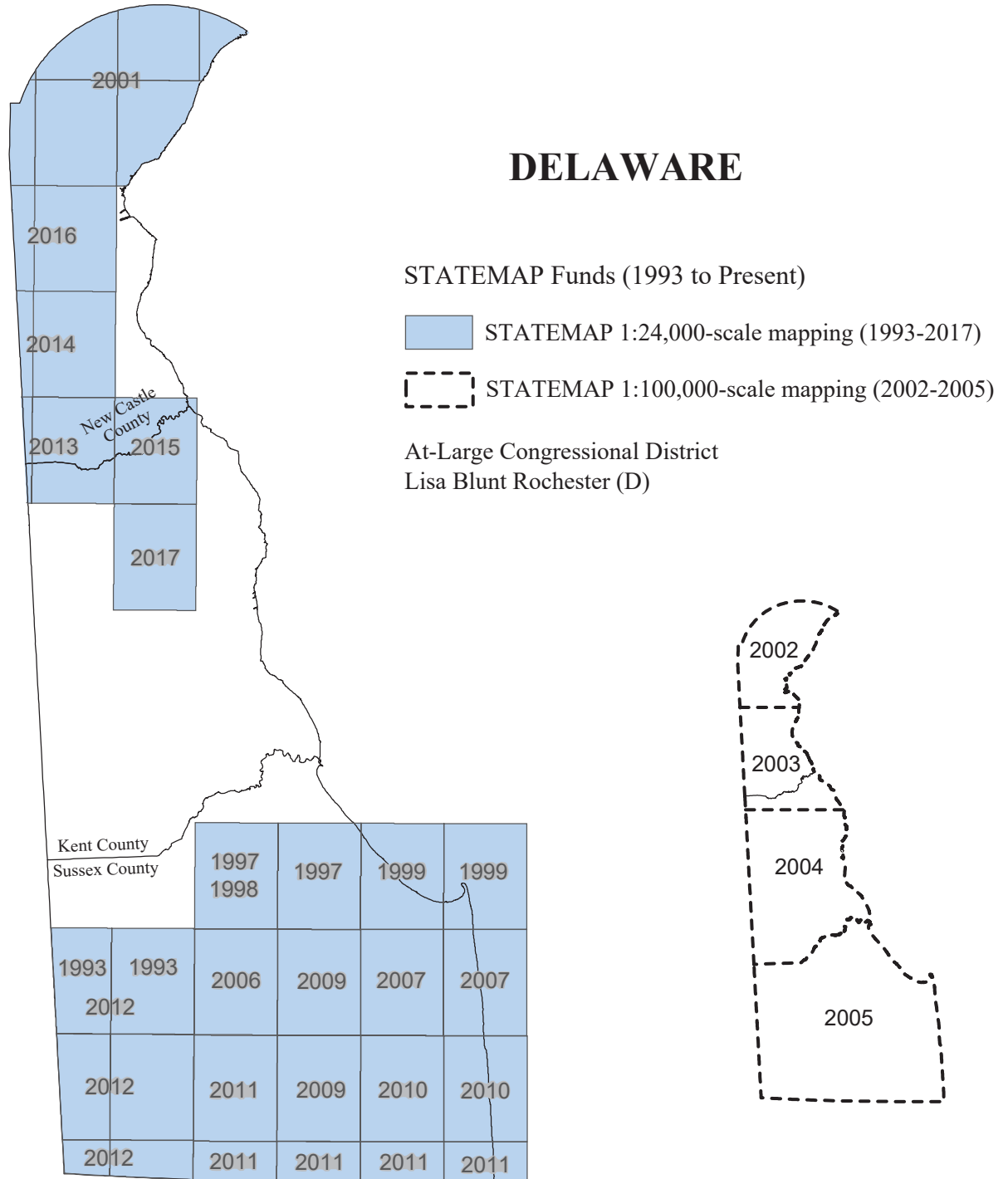




National Cooperative Geologic Mapping Program

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



Contact information

Delaware Geological Survey

State Geologist: David R. Wunsch (302) 831-8258
 STATEMAP Contacts: Kelvin W. Ramsey (302) 831-3586
 Jaime L. Tomlinson, (302) 831-2649
<http://www.dgs.udel.edu/>

USGS Geologic Mapping Program Office
 Associate Program Coordinator: Darcy K. McPhee (703) 648-6973
<http://ncgmp.usgs.gov/>

SUMMARY OF STATEMAP GEOLOGIC MAPPING PROGRAM IN DELAWARE

Federal Fiscal Year	Project Title	State Dollars	Federal Dollars	Total Project Dollars
1993-99	Geologic Map of the Seaford East, Seaford West, Milton, Ellendale, Lewes and Cape Henlopen Quadrangles, Scale 1:24,000	\$364,453	\$127,366	\$491,819
2001	USGS Digital Geologic Map Database Development	14,619	8,000	22,619
2002-05	Surficial Geologic Map of Delaware, Scale 1:100,000	539,423	268,827	808,250
2006	Geologic Map of the Georgetown Quadrangle, Scale 1:24,000	130,201	72,199	202,400
2007	Geologic Map of the Fairmount and Rehoboth Beach Quadrangles, Scale 1:24,000	98,561	67,655	166,216
2009	Geologic Map of the Harbeson and Millsboro Quadrangles, Scale 1:24,000	105,661	105,652	211,313
2010	Geologic Map of the Frankford and Bethany Beach Quadrangles, Scale 1:24,000	114,661	114,646	229,307
2011	Trap Pond and Eastern Stateline Quadrangles, Scale 1:24,000	119,656	119,386	239,042
2011	Regional Correlation of Potomac Aquifer	49,842	49,777	99,619
2012	Geologic Map of Western Sussex County, Delaware, Scale 1:24,000	128,750	128,656	257,406
2013	Geologic Map of the Clayton and Eastern Millington Quadrangles, Scale 1:24,000	119,470	119,446	238,916
2014	Geologic Map of the Middletown and Eastern Cecilton Quadrangles, Scale 1:24,000	109,613	109,613	219,226
2015	Geologic Map of the Smyrna Quadrangle, Scale 1:24,000	94,536	94,536	189,072
2016	Geologic Map of the Saint Georges and Eastern Elkton Quadrangles, Scale 1:24,000	103,531	103,531	207,062
2017	Geologic Map of the Dover Quadrangle, Scale 1:24,000	110,557	110,557	221,114
	TOTALS	\$2,203,534	\$1,599,847	\$3,803,381

The Delaware Geological Survey has a continuing program to map the geology of the entire state at the detailed scale of 1:24,000. The STATEMAP component of the National Cooperative Geologic Mapping Program has contributed significantly to our surficial geologic mapping program. This work has entailed not only new geologic mapping, but also the digital compilation of previous mapping. Products resulting from this program include file formats that can be downloaded as digital geologic map products.

Geologic maps show the distribution of rock units and other geologically related information, and are important sources of natural-resource and environmental information including, but not limited to, water resources, building materials, and unstable land. Geologic maps are the fundamental bases from which derivative maps and applications are generated. Uses for geologic maps include:

- Development and protection of ground- and surface-water resources (occurrence, distribution, availability, quantity, and quality)
- Mapping of ground-water recharge and wellhead-protection areas
- Evaluation of geologic hazards (earthquakes, land subsidence, coastal erosion, stream and river flooding, landslides)
- Planning transportation and utility routes
- Land-use planning and evaluation of land-use proposals
- Environmental assessment and protection planning (underground storage tanks, landfills, spray irrigation sites, aquifer contamination, best management practices)
- Natural-resource assessment, exploration, development, and management (sand and gravel, clay, aggregate)
- Regulatory decision-making
- Site selection for public facilities (schools, landfills, water-treatment facilities, waste-disposal sites, reservoirs)
- Agriculture, education and recreation