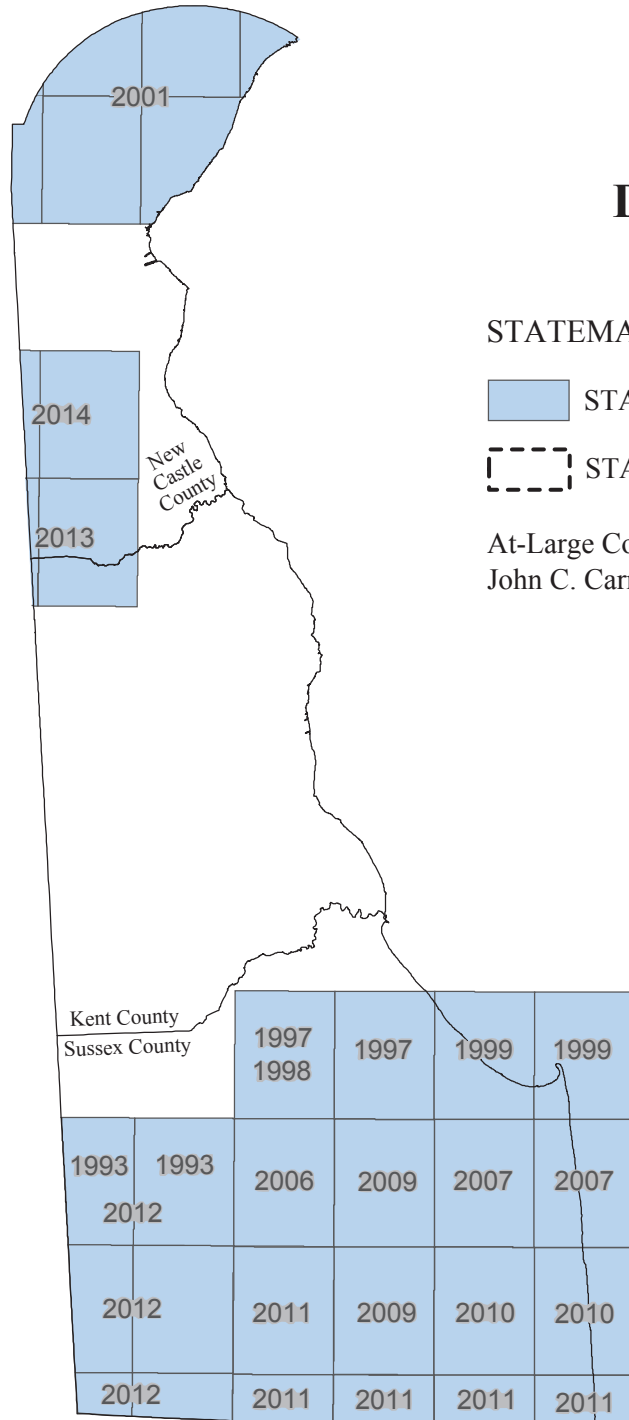




National Cooperative Geologic Mapping Program

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

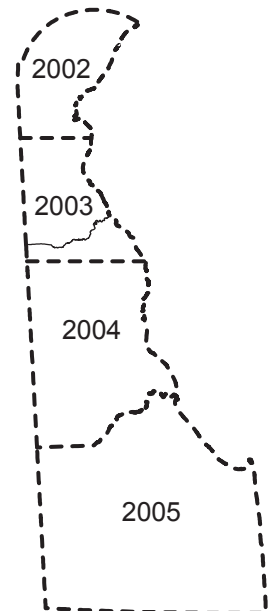


DELAWARE

STATEMAP Funds (1993 to Present)

- STATEMAP 1:24,000-scale mapping (1993-2014)
- STATEMAP 1:100,000-scale mapping (2002-2005)

At-Large Congressional District
John C. Carney, Jr. (D)



Contact information

Delaware Geological Survey

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USGS Geologic Mapping Program Office

Associate Program Coordinator: Douglas A. Howard (703) 648-6978
<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 |
| | TOTALS | \$1,894,910 | \$1,291,223 | \$3,186,133 |

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