



Association of American  
State Geologists



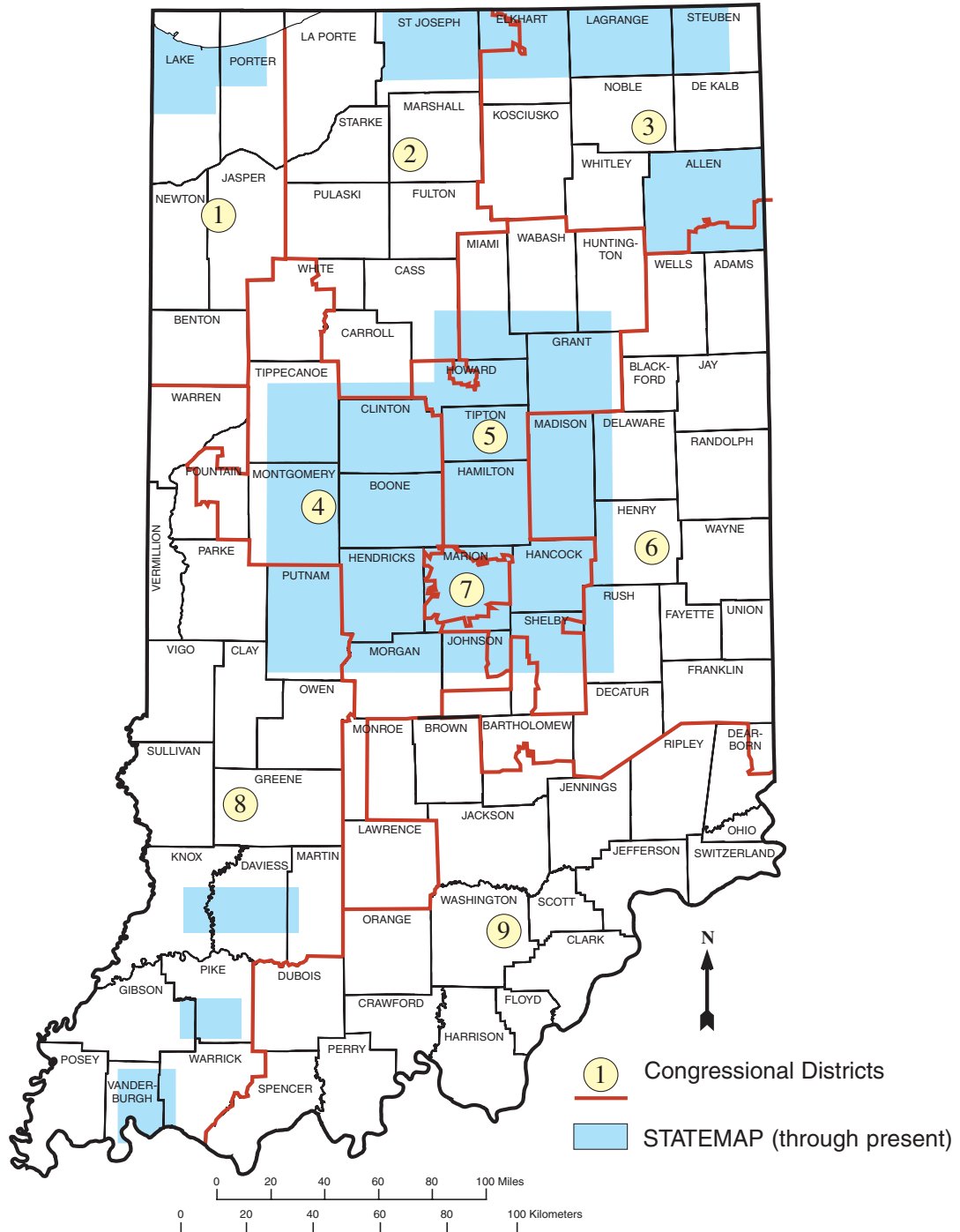
United States  
Geological Survey



# National Cooperative Geologic Mapping Program

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

## INDIANA



### Contact information

#### Indiana Geological Survey

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# SUMMARY OF STATEMAP GEOLOGIC MAPPING PROGRAM IN INDIANA

Federal Fiscal Year	Project Title	Federal Dollars	State Dollars	Total Project Dollars
93	Glacial Terrain Map: Chicago 30' x 60' quadrangle, Phase 1: scales 1:100,000 and 1:24,000	\$24,426	\$64,160	\$88,586
94	Glacial Terrain Map, Chicago 30' x 60' quadrangle, Phase 2: scales 1:100,000 and 1:24,000 Quaternary–Materials Terrain Map, Evansville Metro quadrangles, Phase 1: scale 1:24,000	57,938 30,000	79,418 50,079	137,356 80,079
95	Glacial Terrain Map, Dyer, Crown Point, and Saint John quadrangles: scale 1:24,000 Quaternary - Materials Terrain Map of Evansville Metro quadrangles: Newburgh and Daylight 7.5-min: scale 1:24,000	35,000 15,000	53,203 19,429	88,203 34,429
96	Glacial Terrain Maps: Shipshewana, Topeka, Middlebury, Millersburg, and Indiana portion of the Sturgis 7.5-min quadrangles: scale 1:24,000 Geological Terrain Map of the Evansville Metropolitan quadrangles: the Daylight Quadrangle: scale 1:24,000 Systems Mapping of Bedrock and Nonlithified Deposits in Daviess and Knox Counties, Vincennes 30' x 60' quadrangle: Systems Mapping of the Loogootee and Montgomery 7.5-min quadrangles: scales 1:100,000 and 1:24,000 Digital Conversion of Maps and Report of Allen County.	51,446 16,771 52,135 12,290	51,673 18,787 85,433 13,191	103,119 35,558 137,568 25,481
97	Glacial Terrain Maps of Mongo and Wolcottville 7.5-min quadrangles, LaGrange and Elkhart Counties: scale 1:24,000 Systems Mapping of Bedrock and Nonlithified Overburden in the Washington and Wheatland 7.5-min quadrangles, Daviess and Knox Counties: scale 1:24,000	44,827 62,586	45,101 78,891	89,928 141,477
98	Glacial Terrain Maps of the Middlebury, Millersburg, Bristol, Goshen, Stroh, Orland, and Indiana Part of the Bronson South 7.5-min quadrangles, LaGrange, Steuben, and Elkhart Counties: scale 1:24,000 Systems Mapping of Bedrock and Nonlithified Overburden in the Oakland City and Augusta 7.5-min Quadrangles, Pike County: scale 1:24,000	56,045 16,261	57,008 54,771	113,053 71,032
99	Geological Mapping Michiana Corridor: scale 1:24,000 Geological Mapping Indiana Heartland (Central): scales 1:100,000 and 1:24,000 Geological Mapping Indiana Heartland (Northeast): scale 1:24,000	62,950 30,160 16,890	63,052 30,449 17,163	126,002 60,609 34,053
00	2000 STATEMAP Indiana Geol. Survey: New Mapping, Michiana Corridor: Scale 1:24,000 2000 STATEMAP Indiana Geol. Survey: New Mapping, Indiana Heartland (central); scales 1:100,000 and 1:24,000 2000 STATEMAP Indiana Geological Survey: New Mapping, Indiana Heartland (northeast): scale 1:24,000	63,775 34,990 40,807	64,502 35,732 41,023	128,277 70,722 81,830
01	2001 STATEMAP Indiana Heartland: scale 1:100,000 Entering Indiana geoscience map references in the National Geologic Map Database	197,152 6,000	197,366 6,000	394,518 12,000
02	2002 STATEMAP Indiana Heartland: scale 1:100,000	227,334	227,334	454,668
03	2003 STATEMAP Central Indiana: scale 1:100,000	147,329	147,887	295,216
<b>TOTALS</b>		<b>\$1,302,112</b>	<b>\$1,501,652</b>	<b>\$2,803,764</b>

## Geologic Mapping: A STATE NEED

The Indiana Geological Survey (IGS) STATEMAP program addresses a variety of societal, scientific, and operational needs within the context of the IGS long-term mapping plan. Mapping priorities are determined on the basis of several criteria, including the practical need to concentrate mapping efforts in corridors and centers of growth, the distribution of completed and in-progress work, the availability of data, opportunities for inter-agency cooperation, and opportunities for education and outreach. Through their mapping efforts, IGS staff hope to promote broad-based geological understanding amongst our citizens, our most important customers, and bridge the gap between the highly technical nature of science and the need for general earth information.

### How are geologic maps used?

The primary use of geologic maps and associated products is education. These products bring to the *common* table a combination of the most up-to-date data, interpretation, and illustration. Their intent is to be a cornerstone of the public forum on land-use issues.

Geologic-map products are utilized for making informed land-use decisions involving:

- Geologic framework of aquifers and their recharge and discharge areas
- Ground-water resources: location, amount, protection
- Mineral and energy resources and the environmental impact of their extraction
- Local and regional sensitivity to ground-water contamination: best-management practices, local septic-system issues, solid- and hazardous-wastes disposal
- Earthquake hazards and mitigation

Advances in technology now allow geologists to access, view, and analyze data in ways never before possible. Geographic Information Systems (GIS) and computer databases permit STATEMAP-sponsored geologists to make customized, user-friendly products for end users. Moreover, modern geologic maps are digitally stored for rapid ease of manipulation at minimal cost. These methods of data handling and manipulation in themselves create new mapping challenges and opportunities.

Overall, the intent of modern geologic maps is to permit the citizens of the state to raise the quality of their lives through informed decisions directed toward the wise use of the land.