



Association of American
State Geologists



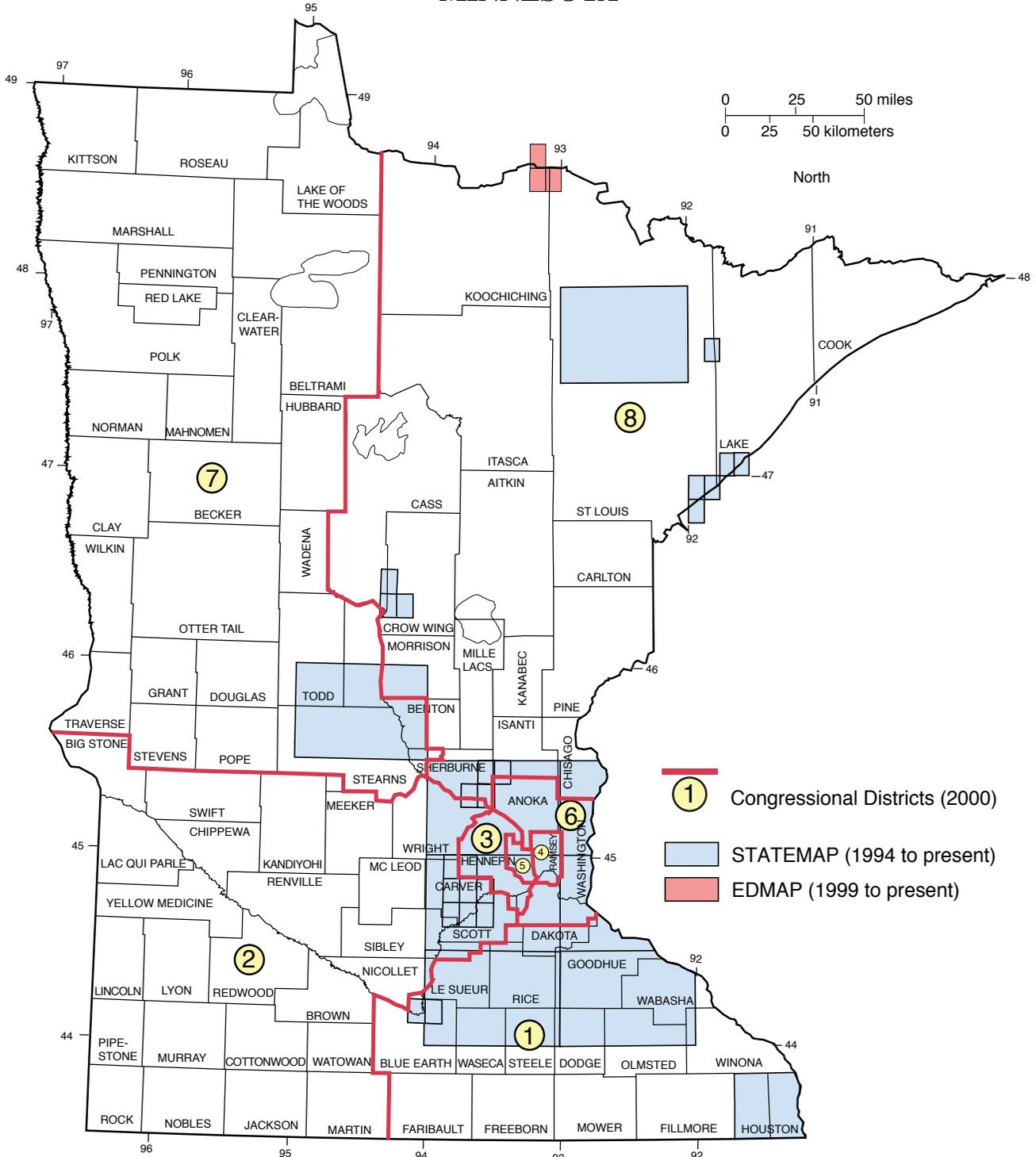
United States
Geological Survey



National Cooperative Geologic Mapping Program

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

MINNESOTA



Contact information

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**SUMMARY OF STATEMAP AND EDMAP
GEOLOGIC MAPPING IN MINNESOTA**

Federal Fiscal Year	Project Title, Scale	State Dollars	Federal Dol- lars	Total Project Dollars
1993	Digitization of data from COGEMAP projects (1987-92)	\$14,461	\$11,980	\$26,441
1994	Bedrock Geology of Houston County (eastern half) 1:100,000	\$18,000	\$18,000	\$36,000
1995	Bedrock Geology of Houston County (western half) 1:100,000	\$15,000	\$15,000	\$30,000
1996	Surficial Geology of the Shakopee quadrangle, 1:24,000	\$33,529	\$33,529	\$67,058
	Surficial Geology of the Anoka quadrangle, 1:100,000			
1997	Surficial Geology of the Jordan East quadrangle, 1:24,000	\$36,734	\$36,733	\$73,467
	Surficial Geology of the Victoria quadrangle, 1:24,000			
1998	Surficial Geology of the Jordan West quadrangle, 1:24,000	\$41,515	\$41,515	\$83,030
	Surficial Geology of the Mound quadrangle, 1:24,000			
	Surficial Geology of the Stillwater quadrangle, 1:100,000			
	Surficial Geology of the Hastings quadrangle, 1:100,000			
1999	Surficial Geology of the Waconia quadrangle, 1:24,000	\$65,867	\$65,867	\$131,734
	Surficial Geology of the St. Paul quadrangle, 1:100,000			
	Surficial Geology of the Rochester quadrangle, 1:100,000			
2000	Surficial Geology of the Watertown quadrangle, 1:24,000	\$76,942	\$76,912	\$153,854
	Surficial Geology of the Belle Plaine N. quadrangle, 1:24,000			
	Surficial Geology of the Gull Lake quadrangle, 1:24,000			
	Surficial Geology of the Baxter quadrangle, 1:24,000			
	Surficial Geology of the Brainerd quadrangle, 1:24,000			
	Surficial Geology of the St. Cloud quadrangle, 1:100,000			
2001	Surficial Geology of the Faribault quadrangle, 1:100,000	\$156,081	\$156,081	\$312,162
	Surficial Geology of the Elk River quadrangle, 1:24,000			
	Surficial Geology of the Big Lake quadrangle, 1:24,000			
	Surficial and Bedrock Geology of the French River quadrangle, 1:24,000			
	Surficial and Bedrock Geology of the Lakewood quadrangle, 1:24,000			
	Bedrock Geology of the Babbitt NE quadrangle, 1:24,000			
	Bedrock Geology of the Knife River quadrangle, 1:24,000			
2002	Surficial Geology of the Crown quadrangle, 1:24,000	\$135,147	\$135,141	\$270,288
	Surficial Geology of the Lake Fremont quadrangle, 1:24,000			
	Surficial Geology of the Knife River quadrangle, 1:24,000			
	Surficial and Bedrock Geology of the Two Harbors quadrangle, 1:24,000			
	Bedrock Geology of the Castle Danger quadrangle, 1:24,000			
	Bedrock Geology of the Mankato East quadrangle, 1:24,000			
	Bedrock Geology of the Mankato West quadrangle, 1:24,000			
	Bedrock Geology of the Vermilion Lake quadrangle, 1:100,000			
2003	Surficial Geology of the Monticello quadrangle, 1:24,000	\$125,987	\$125,987	\$251,974
	Surficial Geology of the Silver Creek quadrangle, 1:24,000			
	Surficial Geology of the Castle Danger quadrangle, 1:24,000			
	Bedrock Geology of the Split Rock Point quadrangle, 1:24,000			
	Bedrock Geology of the Judson quadrangle, 1:24,000			
	Bedrock Geology of the Good Thunder quadrangle, 1:24,000			
	Bedrock Geology of the Ely quadrangle, 1:100,000			
TOTALS		\$719,263	\$716,745	\$1,436,008

The STATEMAP component of the National Cooperative Geologic Mapping program is a valuable augmentation to the ongoing mapping mission of the Minnesota Geological Survey. The transformation from rural, agricultural land use to urban and suburban development has created resource and environmental issues in which geological factors are significant. Local officials who deal with these issues on a daily basis use regional geologic maps (scale 1:100,000) to obtain a broad view of geological conditions. They use detailed mapping (scale 1:24,000) to more closely identify conditions that may influence decisions relating to aquifer protection and recharge, wetland protection, open-space set-asides, septic-system regulation, and the management of construction-aggregate resources.

Similar environmental and resource concerns exist all around Minnesota. In the scenic central lakes area of Crow Wing, Cass, and Hubbard counties, the transformation from dispersed to concentrated shoreline development has created increasing concern for the sustainability of high-quality surface-water and ground-water resources and a heightened awareness of the need for geological information pertinent to the issue. The same is true for the North Shore of Lake Superior, where rapid, relatively large-scale, recreational development is causing concern. STATEMAP projects in these areas will contribute to rational planning and resource management.

The mining industry is a major contributor to Minnesota's economy. Although iron-mining has long been the mainstay, economic deposits of other mineral commodities such as platinum-group metals, gold, copper, nickel, and zinc may well occur in favorable geologic settings.