



Association of American
State Geologists



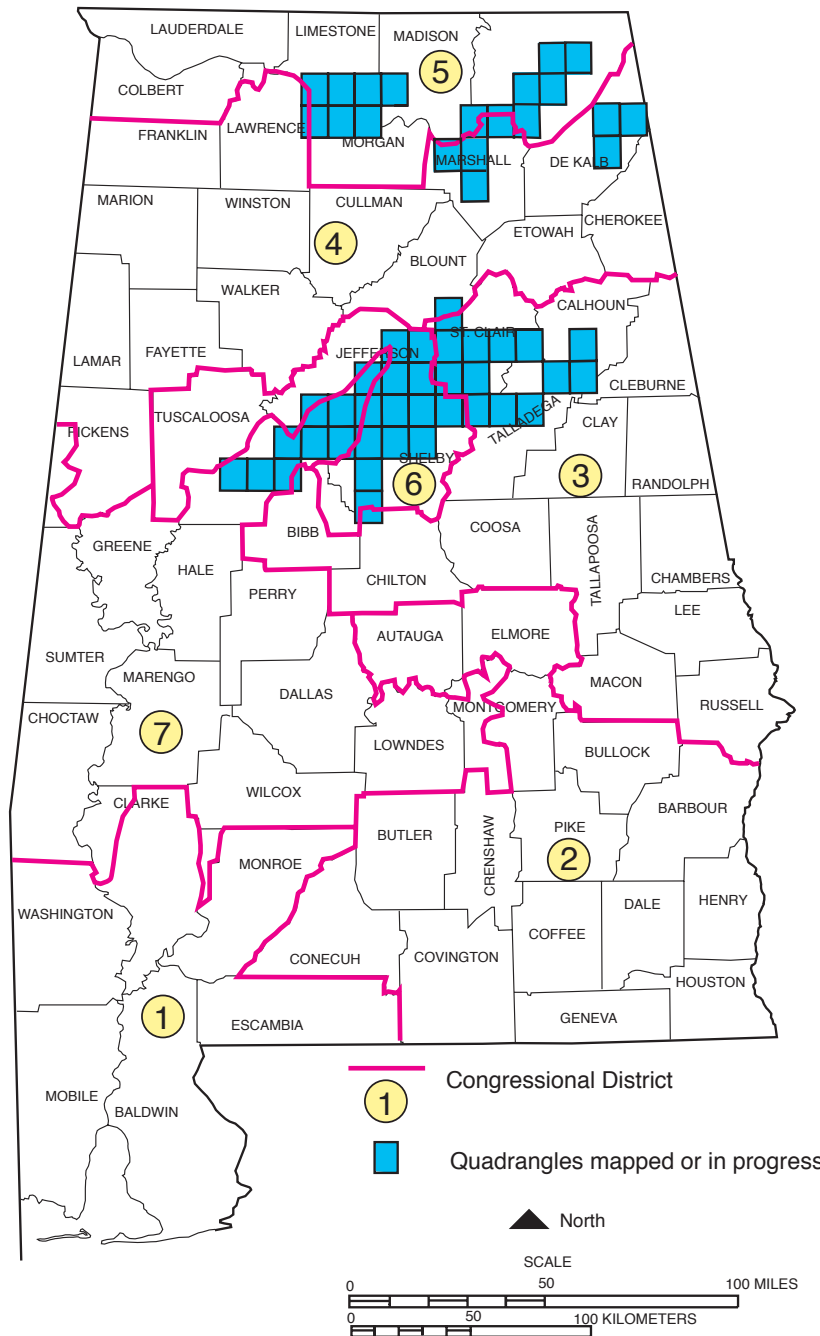
United States
Geological Survey



National Cooperative Geologic Mapping Program

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

ALABAMA



Contact information

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SUMMARY OF STATEMAP GEOLOGIC MAPPING PROGRAM IN ALABAMA

Federal Fiscal Year	Project Title and Scale	State Dollars	Federal Dollars	Total Project Dollars
93	Leeds quadrangle, 1:24,000	\$20,000	\$20,000	\$40,000
94	Helena quadrangle, 1:24,000	\$17,608	\$17,608	\$35,216
95	Alabaster and Anniston quadrangles, 1:24,000	\$30,000	\$30,000	\$60,000
96	Anniston area, 1:24,000	\$66,293	\$66,293	\$132,586
97	Tuscaloosa-Birmingham corridor, 1:24,000	\$75,053	\$75,053	\$150,106
98	North Birmingham, Year 1, 1:24,000	\$51,456	\$51,456	\$102,912
99	North Birmingham, Year 2, 1:24,000	\$106,762	\$106,762	\$213,524
00	Shelby County, 1:24,000	\$102,870	\$102,870	\$205,740
01	Honda Plant site and Decatur area, Year 1, 1:24,000	\$127,550	\$127,550	\$255,100
02	Honda Plant site and Decatur area, Year 2, 1:24,000	\$144,853	\$144,853	\$289,706
03	Honda Plant site, Year 3 and Tuscaloosa, 1:24,000	\$85,176	\$85,176	\$170,352
04	I-459 and Fort Payne, Year 1, 1:24,000	\$92,119	\$92,119	\$184,238
05	Fort Payne, Year 2 and Corridor 7 (U.S. 72), Year 1, 1:24,000	\$88,486	\$88,486	\$176,972
06	Corridor 7 (U.S. 72), Year 2, 1:24,000	\$105,037	\$105,037	\$210,074
07	Corridor 7 (U.S. 72), Year 3 and Fort Payne, Year 3, 1:24,000	\$106,595	\$106,595	\$213,190
08	Corridor 7 (U.S. 72), Year 4, 1:24,000	\$112,789	\$112,789	\$225,578
TOTALS		\$1,332,647	\$1,332,647	\$2,665,294

EXAMPLE OF STATEMAP OUTCOME

□ The McCalla, Alabama, 7.5-minute quadrangle is situated midway between Tuscaloosa and Birmingham along the Interstate 20/59/459 Growth Corridor. The quadrangle is underlain by structurally complex Paleozoic sedimentary rocks at the leading edge of the Appalachian thrust belt. About 15 miles to the southwest, a \$300 million Mercedes-Benz International passenger vehicle manufacturing facility was completed in 1996, and a \$600 million expansion is currently underway that will double the work force and size of the plant. Recognizing the potential for future industrial and urban growth in the McCalla quadrangle, the Geological Survey of Alabama's State Mapping Advisory Committee designated the area as one of the highest mapping priorities in the state. Geologic mapping of the McCalla quadrangle began in 2003 and was completed in 2004. The published geologic map was released in 2006. The geologic map of the McCalla quadrangle is currently being extensively used by the aggregate industry in the continued search for high-quality construction materials to support the growing infrastructure of the area, and planners and developers are using the map in the planning for and mitigation of geologic hazards (sinkholes and landslides) and for foundation studies. As an additional benefit, the geologic map reflects significant advances in our understanding of the stratigraphy and structural geology of the area and is an important part of the structural synthesis of the Appalachian thrust belt in Alabama recently completed by Drs. William A. Thomas and German Bayona and published as Alabama Geological Survey Monograph 16 in 2005.