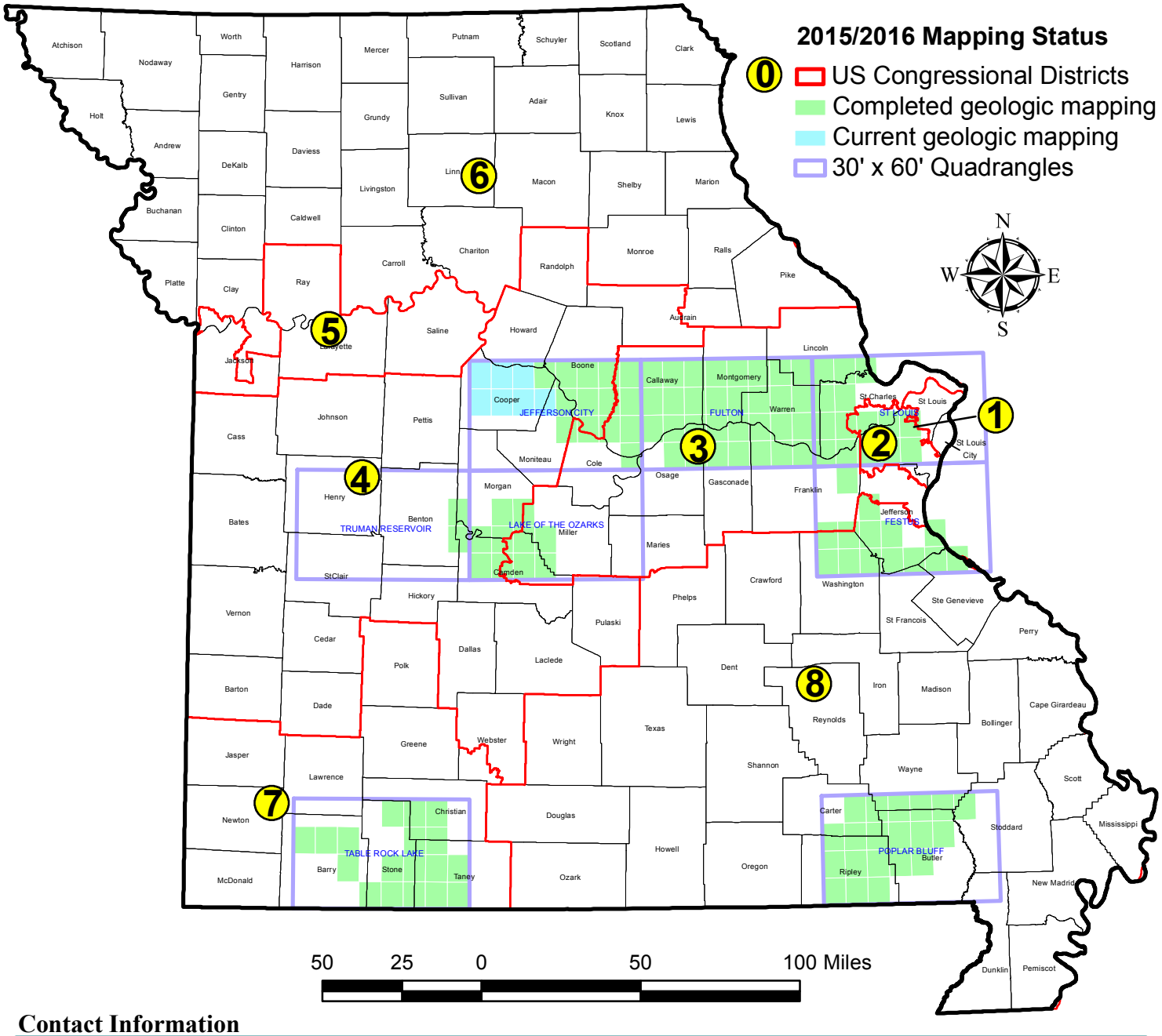
National Cooperative Geologic Mapping Program

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

MISSOURI



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STATUS OF STATEMAP GEOLOGIC MAPPING PROGRAM IN MISSOURI 2015/2016

Year	Project Title	Federal Dollars	State Dollars	Project Dollars
93-98	**Table Rock Lake Mapping Project**: Purdy, McDowell, Lampe, Table Rock Dam, Viola, Garber, Reeds Spring, Branson, Hollister, Mincy, Forsyth, Shell Knob, Day, Highlandville, Hurley, Jenkins, Selmore and Spokane 7.5' quads	$ 319,395	$ 320,069	$ 639,464
98-00	**Poplar Bluff Mapping Project**: Briar, Doniphan North, Doniphan South, Ellsinore, Fairdealing, Flatwoods, Grandin, Grandin Southwest, Harviell, Hendrickson, Hogan Hollow, Hunter, Oxly, Poplar Bluff, Poynor, Puxico, Rombauer, Stringtown, Wappapello and Williamsville 7.5' quads **Table Rock Lake, Missouri, 30'x60' quad compilation**	202,545	239,224	441,769
00-02	**Festus Mapping Project**: Bloomsdale, Cedar Hill, Cyclone Hollow, Danby, De Soto, Ebo, Fletcher, Gray Summit, Halifax, Old Mines, Richwoods, Selma, Tiff and Vineland 7.5' quads **Lake of the Ozarks Mapping Project**: Bagnell, Barnumton, Bollinger Creek, Camdenton, Green Bay Terrace, Lake Ozark, Sunrise Beach and Toronto 7.5' **Festus Digitizing Project**: Belew Creek, Festus, Herculaneum, House Springs, Lonedell, Maxville, Moselle, Oakville, Pacific, St. Clair and Valmeyer 7.5' quads **Springfield, Missouri, 30'x60' quad compilation**	308,232	295,234	603,466
02-05	**Fulton Mapping Project**: Berger, Dissen, Fredericksburg, Gasconade, Hermann, Marthasville, Morrison, New Haven, Pershing, Swiss, Treloar, Washington West, Foristell, New Melle, Troy, Washington East, Warrenton, Wright City, Bellflower South, Hawk Point, Jonesburg, New Florence, Pinnacle Lake and Warrenton Northeast 7.5' quads 7.5' quads **Lake of the Ozarks Mapping Project**: Boylers Mill, Gravois Mills, Knobby and Rocky Mount 7.5' quads	672,510	689,360	1,361,870
05-06	**Fulton Mapping Project** (bedrock mapping): Americus, Hawk Point, Montgomery City and Warrenton Northeast 7.5' quads; (surficial material mapping with drilling assistance): Americus and Montgomery City 7.5' quads **St. Louis Mapping Project** (surficial material mapping with existing data): Wentzville 7.5' quad	144,547	144,547	289,094
06-07	**Fulton Mapping Project** (bedrock and surficial material mapping): Fulton, Readsville and Williamsburg 7.5' quads	118,308	118,308	236,616
07-08	**Fulton Mapping Project** (bedrock and surficial material mapping): Calwood, Kingdom City and Reform; (bedrock only): Mokane East 7.5' quads	132,603	146,053	278,656
08-09	**Fulton Mapping Project** (bedrock and surficial mapping): Luystown and Mokane West 7.5' quads; (surficial only): Mokane East 7.5' quad	104,451	107,799	212,250
09-10	**St. Louis Mapping Project** (bedrock and surficial mapping): Eureka and Labadie 7.5' quads; (surficial only): Chesterfield 7.5'; (bedrock only): Weldon Spring 7.5'	133,590	134,740	268,330
10-11	**St. Louis Mapping Project** (bedrock and surficial mapping): Maryknoll 7.5'; (bedrock only): Wentzville 7.5'; (surficial only) Winfield and Defiance 7.5' quads	124,754	132,800	257,554
11-12	**St. Louis Mapping Project** (bedrock and surficial mapping) Manchester 7.5'; (bedrock only) Chesterfield, Creve Coeur, Kirkwood 7.5' quads; **Fulton, Missouri, 30'x60' quad compilations (bedrock and surficial)**	151,739	169,356	321,095
12-13	**Jefferson City Mapping Project** (bedrock mapping): Osage City, New Bloomfield and Guthrie 7.5' quads	99,821	104,664	204,485
13-14	**Jefferson City Mapping Project** (bedrock mapping): Rocheport, Huntsdale, Columbia, Millersburg and Millersburg NE 7.5' quads; **St. Louis, Missouri, 30'x60' quad compilation**	134,667	143,709	278,376
14-15	**Jefferson City Mapping Project** (bedrock mapping): Jamestown, Ashland, Millersburg SW, Centertown NW, Hartsburg, and Jefferson City NW 7.5' quads; **Poplar Bluff, Missouri, 30'x60' quad compilation**	160,189	170,463	330,652
15-16	**Jefferson City Mapping Project** (bedrock mapping): Billingsville, Boonville, Bunceton, Lone Elm, Pilot Grove N, Pilot Grove S and Prairie Home 7.5′ quads	164,346	179,534	343,880
	TOTALS	$ 2,971,697	$ 3,095,860	$ 6,067,557

STATEMENT OF OUTCOME

The Missouri Geological Survey is an active participant in the STATEMAP component of the National Cooperative Geologic Mapping Program, having participated since STATEMAP's inception in 1993. Missouri recognizes the importance of geologic mapping as a tool for land-use planners, emergency management officials, developers, environmental agencies, energy companies, mining companies, water well drillers and many others who have need to understand the nature, composition and distribution of earth materials.

Several areas of rural Missouri have undergone rapid growth in recent years. The rapid development in the Branson, Springfield and Lake of the Ozarks regions taxes natural resources and potentially impacts environmental quality. Geologic mapping identifies geologically sensitive areas, such as karst areas that could be particularly susceptible to groundwater contamination. Geologic mapping has also been focused in portions of southeast Missouri where geologic hazards are associated with the New Madrid Seismic Zone. Mapping in the Poplar Bluff and Festus areas has been completed to optimize safe growth and minimize risks from sinkhole collapse, liquefaction and landslides associated with earthquake hazards. Mapping on the St. Louis, Fulton and Jefferson City project areas targets a region susceptible to geologic hazards and rapid population growth.

Since Missouri began its participation in the STATEMAP program, it has completed 124 bedrock and 99 surficial material maps at a scale of 1:24,000. During its 23-year involvement in the STATEMAP program, Missouri has received approximately $2,971,697 in federal dollars that were matched with additional state funds. With continued cooperative effort between the United States Geological Survey and the Missouri Department of Natural Resources, the state will have reliable geologic mapping information to assist decision makers with difficult resource choices and planning efforts.