

STATUS OF STATEMAP GEOLOGIC MAPPING PROGRAM IN MISSOURI 2019/2020

Year	Project Title	Federal Dollars	State Dollars	Project Dollars
93-98	Table Rock Lake Mapping Project: Purdy, McDowell, Lampe, Table Rock Dam, Viola, Cape Fair, Garber, Reeds Spring, Branson, Hollister, Mincy, Forsyth, Shell Knob, Day, Highlandville, Hurley, Jenkins, Selmore, 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, 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, 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' quads Festus Digitizing Project: Belew Creek, Festus, Herculaneum, House Springs, Lonedell, Maxville, Moselle, Oakville, Pacific, St. Clair, 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 Lake of the Ozarks Mapping Project: Boylers Mill, Gravois Mills, Knobby, Rocky Mount 7.5' quads	672,510	689,360	1,361,870
05-09	Fulton Mapping Project (bedrock mapping): Americus, Hawk Point, Montgomery City and Warrenton Northeast, Mokane East 7.5' quads; (surficial material mapping with drilling assistance): Americus, Montgomery City, Mokane East 7.5' quads; (bedrock and surficial material mapping): Fulton, Readsville, Williamsburg, Calwood, Kingdom City, Reform, Luystown, Mokane West 7.5' quads St. Louis Mapping Project (surficial material mapping with existing data): Wentzville 7.5' quad	409,909	516,707	926,616
09-10	St. Louis Mapping Project (bedrock and surficial mapping): Eureka, 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) Defiance, Winfield 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, Guthrie 7.5' quads	99,821	104,664	204,485
13-14	Jefferson City Mapping Project (bedrock mapping): Rocheport, Huntsdale, Columbia, Millersburg, 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, 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 North, Pilot Grove South, Prairie Home 7.5' quads	164,346	179,534	343,880
16-17	Jefferson City Mapping Project (bedrock mapping): California North, California South, Clarksburg, Lohman, Otterville, Russellville and Tipton 7.5' quads	165,022	182,733	347,755
17-18	Jefferson City Mapping Project (bedrock mapping): Florence, Fortuna, Latham 7.5' quads; I-70 Mapping Project (bedrock mapping): Beaman, Longwood, Nelson 7.5'quads; Missouri portion of Carbondale 30'x60' quad compilation	161,670	174,361	336,031
18-19	I-70 Mapping Project (bedrock mapping) Hughesville, Houstonia, Marshall S, Napton, Shackelford, Sweet Spring 7.5' quads	155,064	165,972	321,036
19-20	I-70 Mapping Project (bedrock mapping) Alma, Blackburn, Concordia, Knob Noster, LaMonte 7.5' quads; Jefferson City, Missouri, 30'x60' quad compilation	155,476	165,571	321,047
	TOTALS	\$3,608,929	\$3,784,497	\$7,393,426

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.

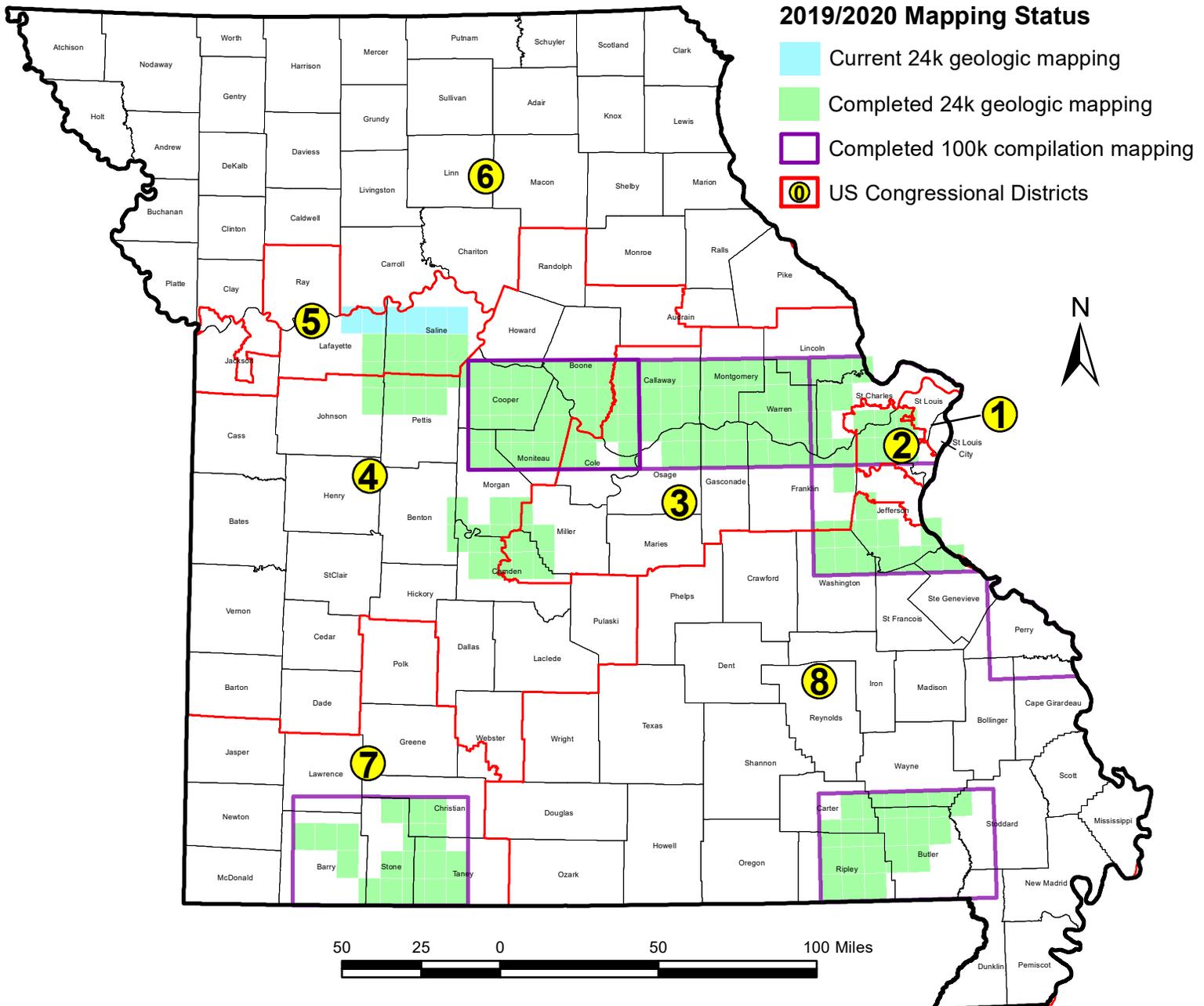
Several areas of rural Missouri have undergone rapid growth in recent years. The rapid development in the Branson, Springfield and Lake of the Ozarks regions taxes natural resources and potentially impacts environmental quality. Geologic mapping identifies geologically sensitive areas, such as karst 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 154 bedrock and 97 surficial material maps at a scale of 1:24,000, and seven 1:100,000-scale bedrock geology compilation maps. During its 24-year involvement in the STATEMAP program, Missouri has received approximately \$3,608,929 in federal dollars that were matched with 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.

National Cooperative Geologic Mapping Program

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

MISSOURI



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