



Association of American State Geologists

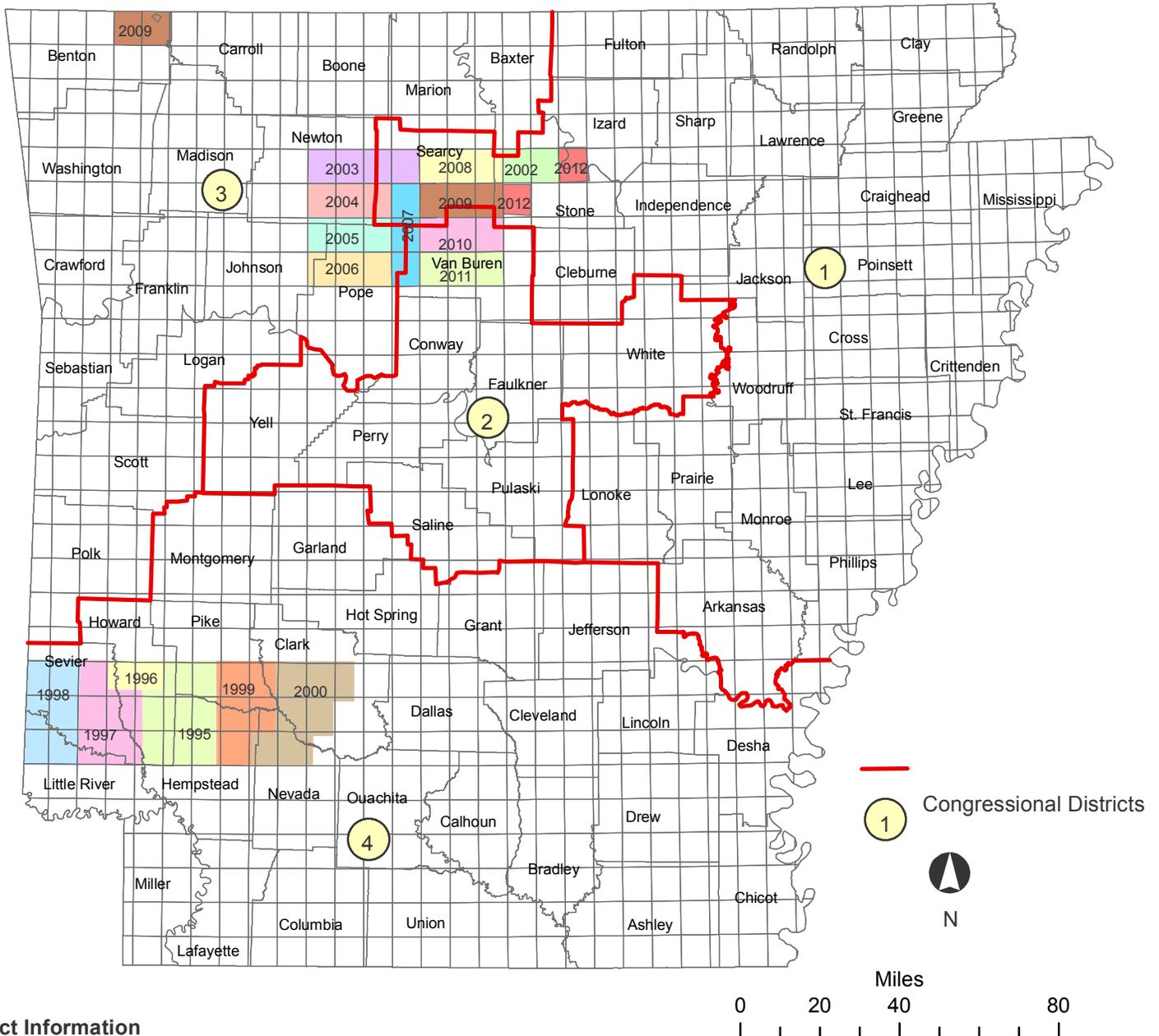


United States Geological Survey



National Cooperative Geologic Mapping Program

STATEMAP Component: States compete for federal matching funds for geologic mapping
Areas and years where STATEMAP Projects have taken place.



Contact Information

Arkansas Geological Survey
 State Geologist: Bekki White (501/296-1877)
 STATEMAP Contact: Angela Chandler (501/683-0111)
<http://www.geology.ar.gov>

U.S.G.S. Geologic Mapping Program Office
 Program Coordinators: Peter T. Lyttle (703/648-6943)
 Associate Program Coordinators: Douglas A. Howard (703/648-6978)
 Linda Jacobsen (703/648-4335)

**SUMMARY OF STATEMAP
GEOLOGIC MAPPING PROGRAM IN ARKANSAS**

Year	Project Title	State Dollars	Federal Dollars	Total Project Dollars
1995-96	Murfreesboro, Nathan, Nashville, McCaskill, Mineral Springs North, Mineral Springs South, Columbus, and Washington 7.5-min quadrangles	\$33,987	\$25,000	\$58,987
1996-97	Center Point and Dierks 7.5-min quadrangles	\$13,037	\$10,000	\$23,037
1997-98	Geneva, Lockesburg, Silver Ridge, Falls Chapel, and Ben Lomond 7.5-min quadrangles	\$43,410	\$41,210	\$84,620
1998-99	DeQueen, Chapel Hill, Horatio, Cerrogordo, Arkinda, Winthrop 7.5-min quadrangles	\$40,889	\$40,825	\$81,714
1999-2000	Antoine, Delight, Pisgah, Piney Grove, and Blevins 7.5-min quadrangles	\$38,327	\$38,311	\$76,638
2000-2001	Arkadelphia, Hollywood, Okolona North, Okolona South, Gurdon, Prescott East, and Prescott West 7.5 quadrangles	\$42,292	\$38,110	\$80,402
2001-2002	Onia and Fifty-Six 7.5 quadrangles	\$46,437	\$45,377	\$91,814
2002-2003	Parthenon, Mt. Judea, Eula, and Snowball 7.5-min quadrangles	\$52,160	\$50,595	\$114,951
2003-2004	Deer, Lurton, and Moore 7.5-min quadrangles	\$49,760	\$48,865	\$98,625
2004-2005	Fort Douglas, Sand Gap and Smyrna 7.5 min quadrangles	\$64,138	\$64,138	\$128,276
2005-2006	Treat, Simpson and Solo 7.5 min quadrangles	\$73,582	\$52,934	\$126,516
2006-2007	Witts Springs, Tilly and Lost Corner 7.5 min quadrangles	\$92,344	\$81,882	\$174,226
	Idabell 1:100,000 quadrangle			
2007-2008	Marshall, Harriet and Landis 7.5 min quadrangles	\$75,537	\$71,365	\$146,902
	Dequeen 1:100,000 quadrangle			
2008-2009	Cannan, Leslie, Oxley, Pea Ridge and Garfield 7.5 min	\$104,705	\$104,704	\$209,409
2009-2010	Alread, Botkinburg and Old Lexington 7.5 min quadrangles	\$64,851	\$64,833	\$129,684
2012-2011	Rex, Clinton and Scotland 7.5 minute quadrangles	\$70,328	\$67,110	\$144,410
2011-2012	Fox and Sylamore 7.5 minute quadrangles	\$74,082	\$72,153	\$146,235

TOTALS

\$979,866	\$917,413	\$1,897,278
------------------	------------------	--------------------

The Arkansas Geological Survey is an active participant in the STATEMAP part of the National Cooperative Geological Mapping Program (NCGMP), having participated since 1995. Arkansas recognizes the importance of geological mapping as a tool for decision makers who have a need to understand the nature, composition, and distribution of earth materials.

Geologic mapping has been and is an important information gathering tool. This information is used for informed decision making and for the protection of the state's resources. The more accurate the geologic information is the better developers and planners decision making abilities can be to protect the environment and serve the public equally.

The Rex quadrangle was recently used by the U.S. Geological Survey (USGS) Arkansas Water Science Center. Geologists with the USGS conducted groundwater sampling in advance of gas drilling and fracing operations taking place at Gulf Mountain Wildlife Management Area. The geologic formation data was particularly important to see if the water chemistry matched up with water/rock interactions for various formations and lithologies such as sandstone, shale and limestone. Before this map was complete the 1:500,000 scale Geologic Map of Arkansas was used. This map lumped the Bloyd and Hale Formations so that determining sandstone from shale horizons was difficult at best. Through recent STATEMAP Mapping, these units are mapped separately so that is it easier to differentiate lithologies through formations and their members.

Since Arkansas began its participation in the STATEMAP Program, it has completed 61 surficial maps at a scale of 1:24,000 and three quadrangles at a 1:100,000 scale. Two more 7.5 minute quadrangles in north-central Arkansas will be completed by July 1, 2013.