



Association of American State Geologists

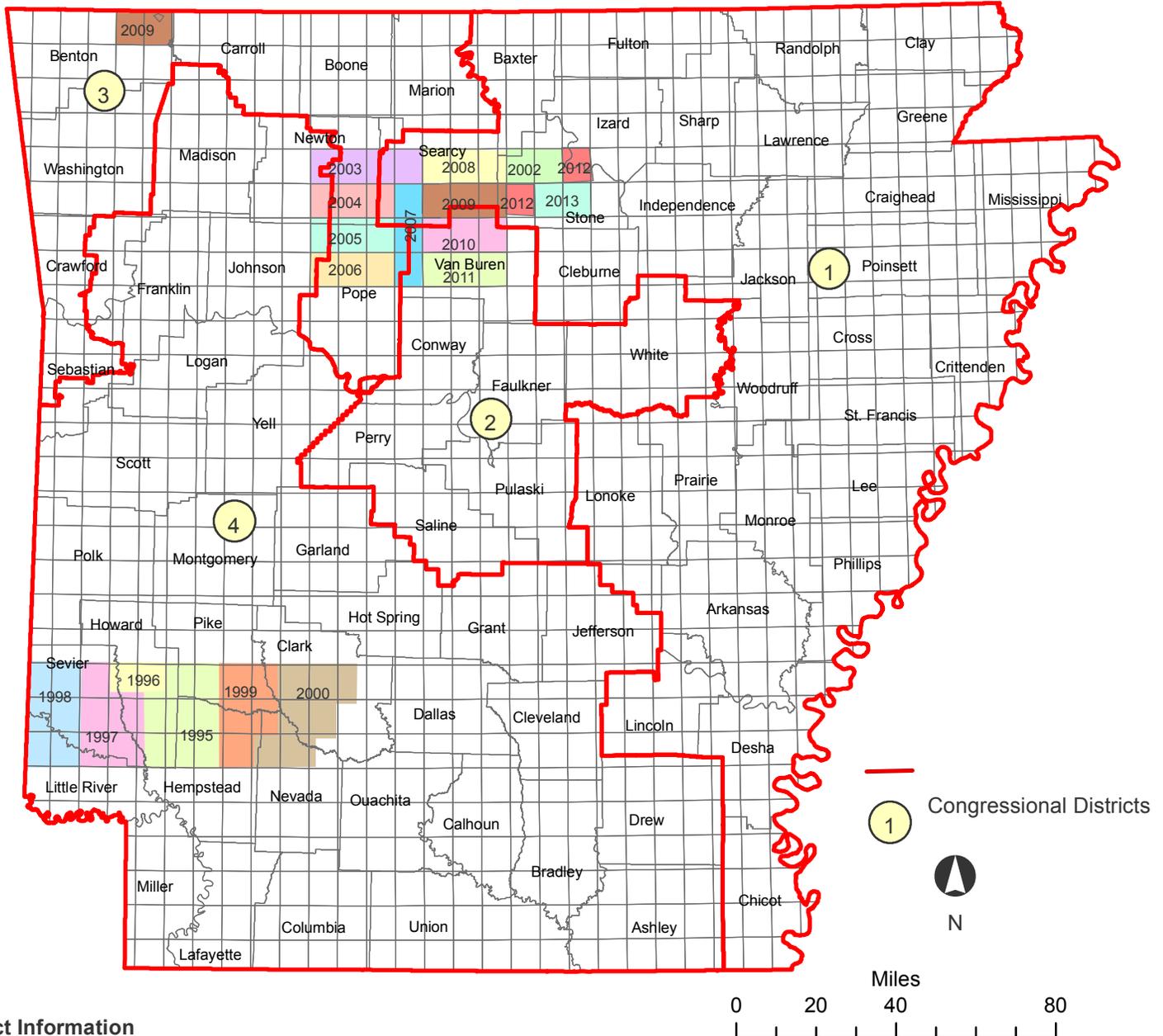


United States Geological Survey



# 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

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### U.S.G.S. Geologic Mapping Program Office

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**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
2012-2013	Mt. View and Mt. View SW 7.5 minute quadrangles	\$71,897	\$65,440	\$107,337

**TOTALS**

<b>1,051,763</b>	<b>\$952,853</b>	<b>\$2,004,616</b>
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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 geologic map of the Garfield quadrangle was recently used by the Arkansas Natural Heritage Commission (ANHC). They routinely conduct surveys for rare species and assess property for inclusion into the state's system of Natural Areas. The ANHC surveyed an area known as Devil's Eyebrow on the Garfield quadrangle to see if it met certain criteria to become a natural area. In this area of the state, small outliers of the Boston Mountains Plateau stand in relief upon the Springfield Plateau. These small hills are capped by the Wedington Sandstone and provide small but unique areas that support rare species. Devil's Eyebrow is one of these small hills shaped much like its name implies.

Biologists at ANHC were able to use the geological data to map plant communities and target surveys for plant and animal species of conservation concern. As a result, this area is known to support exceptional biological diversity including many rare species. One rare plant species was found to be restricted to the Wedington Sandstone Member of the Fayetteville Shale. Devil's Eyebrow was acquired by the ANHC and the Nature Conservancy to be included as a Natural Area in the Arkansas system.

Since Arkansas began its participation in the STATEMAP Program, it has completed 63 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, 2014.