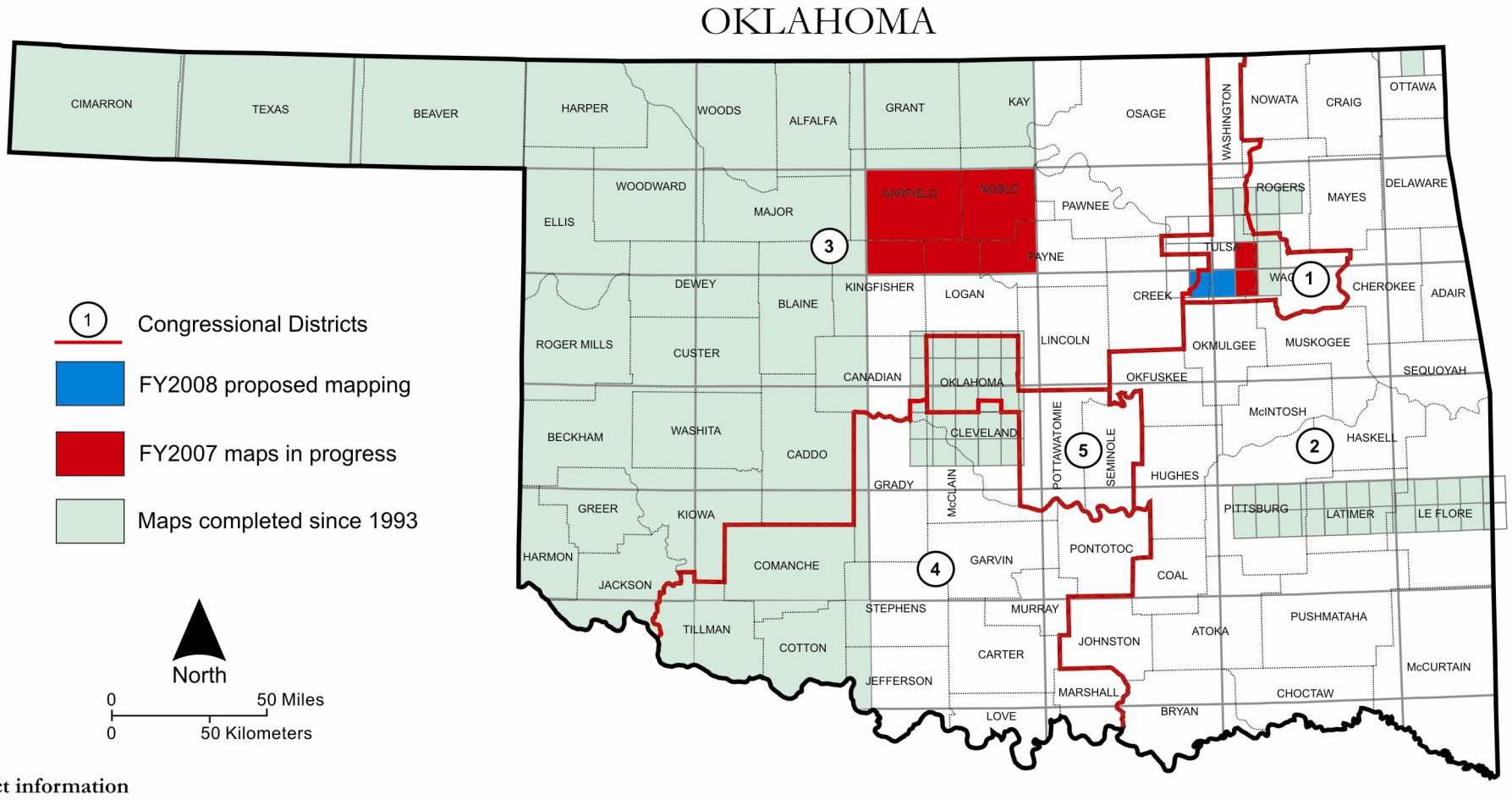
Association of American State Geologists

United States Geological Survey

National Cooperative Geologic Mapping Program - 2008

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

OKLAHOMA



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SUMMARY OF STATEMAP GEOLOGIC MAPPING PROGRAM IN OKLAHOMA

Federal Fiscal Year	Project Map(s), Scale	State Dollars	Federal Dollars	Total Project Dollars
1993	•Heavener and Bates Quadrangles; Le Flore County. 1:24,000	$23,732	$20,000	$43,732
1994	•Adamson and Hartshorne Quadrangles; Pittsburg County. 1:24,000	$61,844	$50,000	$111,844
1995	•Krebs and Hartshorne SW Quadrangles; Pittsburg County. 1:24,000	$80,659	$30,000	$110,659
1996	•McAlester and Savanna Quadrangles; Pittsburg County. 1:24,000 •Watonga and Foss Reservoir sheets; Ellis, Roger Mills, Beckham, Dewey, Custer, Blaine, Kingfisher, Caddo, and Canadian Counties. 1:100,000	$69,104	$68,967	$138,071
1997	•Piedmont, Bethany NE, Edmond, and Arcadia Quadrangles; Kingfisher, Logan, Canadian, and Oklahoma Counties. 1:24,000 •Boise City sheet; Cimarron and Texas Counties. 1:100,000	$95,482	$86,433	$181,915
1998	•Bethany, Britton, Spencer, and Jones Quadrangles; Canadian and Oklahoma Counties. 1:24,000 •Guymon and Beaver sheets; Beaver and Texas Counties. 1:100,000	$113,587	$95,158	$205,745
1999	•Mustang, Oklahoma City, Midwest City, and Choctaw Quadrangles; Canadian and Oklahoma Counties. 1:24,000 •Buffalo sheet; Harper, Woods, Ellis, and Woodward Counties. 1:100,000	$70,642	$79,644	$150,286
2000	•Oklahoma City SW, Oklahoma City SE, Moore, and Franklin Quadrangles; Canadian, Cleveland, Grady, and McClain Counties. 1:24,000	$47,028	$45,966	$92,994
2001	•Blanchard, Newcastle, Norman, and Denver Quadrangles; Canadian, Cleveland, Grady, and McClain Counties. 1:24,000 •Woodward and Fairview sheets; Alfalfa, Blaine, Dewey, Ellis, Garfield, Grant, Kingfisher, Major, Woods, and Woodward Counties. 1:100,000	$167,804	$121,422	$289,226
2002	•Luther, Horseshoe Lake, Harrah, Stella, and Little Axe Quadrangles; Cleveland, Lincoln, Logan, Oklahoma, and Pottawatomie Counties. 1:24,000 •Alva and Elk City sheets; Alfalfa, Beckham, Custer, Garfield, Grant, Greer, Harmon, Kiowa, Roger Mills, Washita, Woods, and Woodward Counties. 1:100,000	$130,123	$124,494	$254,617
2003	•Claremore and Sageeyah Quadrangles; Rogers County. 1:24,000 •Anadarko, Altus and Vernon sheets; Caddo, Canadian, Custer, Greer, Kiowa, Harmon, Jackson, Tillman and Washita Counties. 1:100,000	$121,572	$110,789	$232,361
2004	•Collinsville and Sperry Quadrangles; Rogers and Tulsa Counties. 1:24,000 •Lawton sheet; Caddo, Comanche, Cotton, Grady, Kiowa, Stephens, and Tillman Counties. 1:100,000	$94,069	$86,231	$180,299
2005	•Catoosa and Mingo Quadrangles; Rogers, Tulsa, and Wagoner Counties. 1:24,000 •Picher Quadrangle; Ottawa County. 1:24,000 •Burkburnett sheet; Comanche, Cotton, Jefferson, Stephens, and Tillman Counties. 1:100,000	$148,742	$137,562	$286,304
2006	•Oneta and Coweta Quadrangles; Wagoner County. 1:24,000 •Ponca City sheet; Garfield, Grant, Kay, Noble, Pawnee, and Osage Counties. 1:100,000	$112,932	$102,330	$215,262
2007	•Broken Arrow and Leonard Quadrangles; Tulsa and Wagoner Counties. 1:24,000 •Enid sheet; Garfield, Kingfisher, Lincoln, Logan, Noble, and Payne Counties. 1:100,000	$97,142	$86,540	$183,682
2008	•Bixby and Sapulpa South Quadrangles; Tulsa and Creek Counties. 1:24,000	$84,714	$83,127	$167,841
	TOTALS	**$1,513,547**	**$1,334,292**	**$2,847,838**

As of January 2008

Outcome Statement: Prior to the annual meeting of the Oklahoma Geologic Mapping Advisory Committee (OGMAC), Dr. Gilbert and myself sent questionnaires to all members asking which OGS STATEMAP products have been used in their course of business, and in what capacity. Respondents included a variety of people and organizations ranging from Federal agencies, private industry, state and local municipalities, and academia, and all were highly positive and favorable to the STATEMAP program. All organizations noted the importance of OGS maps, particularly those generated through the STATEMAP program, which are published as open-file reports, in directing their decision making processes. Most concerns centered on water resources and regulatory issues, zoning in relation to flood impact zones, and industrial minerals exploration and development. The 1:24,000 mapping of the Oklahoma City Metro Area (STATEMAP projects for FY1998-2002) have been particularly helpful for both city municipalities in determining water rights permitting and zoning residential and industrial areas relative to flooding; as well as allowing sand and gravel operators to determine the thickness and lateral extent of their deposits. Even the more general reconnaissance 1:100,000-scale geologic maps have been helpful to gypsum operators in western Oklahoma, aiding them in locating new potential deposits, as well as allowing them to do rough reserve estimates with minimal need for expensive drilling.

OGMAC members have also expressed exuberance in our STATEMAP project in the Tulsa Metro Area. The 1:24,000-scale mapping of the Tulsa Metro Area is about half completed at this time with 6 quadrangles mapped and 2 in the process of being mapped.