

The STATEMAP Program in Oklahoma

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STATEMAP is a program in which state geological surveys compete for matching funds from the U.S. Geological Survey for geological mapping. The goal of the program is to develop a geologic framework in areas of important economic, social, or scientific interest to individual states. Oklahoma's STATEMAP plan consists of (1) detailed mapping at 1:24,000 (7.5') scale in and around urban areas that will help define potential hazards, soil types, aggregate resources, and groundwater aquifers; and (2) regional mapping at 1:100,000 scale across the entire state. These areas are currently covered by good to poor mapping, all of which need to be compiled, field checked, corrected, and digitized onto a standardized topographic base. The 1:100,000 scale geologic maps will be used in the compilation of a new 1:500,000 scale geologic map of Oklahoma. Individual geologic maps produced by the STATEMAP program are published as Oklahoma Geologic Quadrangle maps. To date, mapping of the Oklahoma City Metro Area has been completed, and twenty-five 7.5' and two 1:100,000 scale maps have been produced for this area. Mapping of the Tulsa Metro Area is in progress, with fourteen 7.5' quadrangles produced so far. Five 7.5' quadrangles remain to be mapped in the Tulsa Metro Area. Sixteen 1:100,000 scale quadrangles that cover much of the western part of Oklahoma have been completed; Pauls Valley is the most recent quadrangle to be completed. Mapping of the Ardmore and the Oklahoma part of the Gainesville 1:100,000 scale quadrangles is in progress.