

Progress in Development of Digital Geologic Maps Databases in Kansas

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Several new geologic maps of individual counties in Kansas have been published recently with progress in development of the Kansas Digital Geologic Map Database. In coordination with the National Geologic Map Database Project of the U. S. Geological Survey, programs at the Kansas Geological Survey, have focused on new field mapping in areas where published geologic maps were unavailable or deemed inadequate. This effort is combined with innovations in database development from previously published paper maps (usually out-of-print) in those counties where maps of reasonably good quality already exist. The Kansas mapping program has established large-scale (1:24,000) base maps as the standard for field mapping and database development, a significantly larger target base-map scale than the 1:100,000 scale set for the national project.

This presentation demonstrates recent geologic database development efforts and derived products. Techniques used by the Kansas Survey for database development from previously published maps are compared to the more usual practice of direct digital imaging (e.g., scanning). The Survey's techniques provide for integration of resulting data with geologic data from new field work or with Federal topographic map databases such as the USGS digital raster graphic map images. Recently published maps, including Labette, Leavenworth, Wilson, Greenwood, Wyandotte, and Chase counties are presented. Methods used by the Kansas Survey to provide access, via the Internet, to these maps and associated geologic data also are explained.