

Fluvial Geomorphology Surveys State of Kansas

PROJECT

"To provide a wide variety of natural resource related services to individuals, municipalities, and both state and federal agencies."

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**WatershedInstitute.
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The Watershed Institute, Inc. (TWI) personnel conducted fluvial geomorphology surveys for the Kansas Water Office (KWO), Kansas State Conservation Commission (SCC), and Kansas Department of Wildlife and Parks (KDWP) in order to build a fluvial geomorphology database of Kansas streams.



For the KWO project, TWI staff managed and conducted 125 geomorphology surveys across Kansas. The project was the first in several fluvial geomorphology data collection efforts using procedures developed by Dave Rosgen at Wildland Hydrology, Inc.

The SCC Project involved surveying healthy stream reaches or reference reaches across Kansas. Field crews completed surveys on 55 stream reaches. Data were collected and analyzed to achieve two objectives. First, the data are the beginning of a reference reach database for Kansas. A reference reach database provides a foundation or blueprint for

natural channel design. Second, reference reach data were used to further develop relationships among hydraulic parameters at the bankfull stage, or regional curves.



KDWP contracted with TWI to provide additional information for their state-wide stream monitoring program. KDWP conducts statewide stream monitoring to document the current range and distribution of aquatic species. Additional objectives include establishing baseline data on fish and macroinvertebrate communities, physical habitat conditions, and to assess the overall condition of Kansas streams. To supplement their physical habitat data, KDWP contracted TWI to complete a geomorphic assessment at locations surveyed previously for fish and macroinvertebrates. TWI has performed over 60 surveys determining Rosgen stream type, condition, and stability.

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