

Regional Sediment Management Program

Kansas City District Integrate BSTEM into HEC-RAS

Description

The Kansas City District (NWK) is partnering with the Hydraulic Engineering Center (HEC) to develop and beta test a new sediment modeling tool for the HEC River Analysis Software (RAS). The model will be validated within the Kansas River Basin in conjunction with an ongoing sediment modeling project.



Kansas River Basin Model Location

Issue/Challenges The Kansas and Missouri River basins suffer from extreme sediment imbalances. The Corps is in need of a tool to model the erosion of the channel banks.

Expected Products

- BSTEM tool within HEC-RAS
- Application of BSTEM tool on a project within the Kansas River basin

Potential Users All HEC-RAS users within USACE.

Projected Benefits Expected benefits include an enhanced sediment modeling tool for HEC-RAS, and will provide a better analysis tool for bank stabilization, Section 14, channel restoration, and many other types of USACE projects.

Leveraging Opportunities In the Kansas City District alone, this project is being leveraged with the Missouri River Recovery Program, and WRDA Section 204.

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Participating Partners	Hydraulic Engineering Center St. Paul District Rock Island District Kansas Water Office	