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(Prof. Maya Hand)

COMPARISON OF TWO METHODS FOR ESTIMATING BASE FLOW IN SELECTED REACHES OF THE SOUTH PLATTE RIVER, COLORADO: USGS SCIENTIFIC INVESTIGATIONS REPORT 2012-5034



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Bibliogov, United States, 2013. Paperback. Book Condition: New. 246 x 189 mm. Language: English . Brand New Book ***** Print on Demand *****.The U.S. Geological Survey, in cooperation with the Colorado Water Conservation Board, compared two methods for estimating base flow in three reaches of the South Platte River between Denver and Kersey, Colorado. The two methods compared in this study are the Mass Balance and the Pilot Point methods. Base-flow estimates made with the two methods were based upon a 54-year period of record (1950 to 2003). The Mass Balance method for estimating base flow is based on a mass balance of all known inflows to and outflows from a given stream reach, with the equation being solved for groundwater flow into or out of the reach. A positive mass balance indicates a gaining reach (base flow) and a negative balance indicates a losing reach. The mass balance was calculated using daily mean streamflow, wastewater treatment plant discharge, and stream diversion data. Monthly mean base flow was calculated as the average of all daily mean mass-balance results for a given month.

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