



WATER RESOURCES RESEARCH GRANT PROPOSAL

Project ID: NE2681

Title: Investigation of Directional Hydraulic Conductivities of Streambeds and Evaluation of Their Roles in Stream-Aquifer Interactions

Focus Categories: Methods, Models

Keywords: Methods, Models

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Abstract

In groundwater irrigation areas of the High Plains states, one common concern regarding water resources is streamflow depletion. Development of optimal management models for ground water and stream water is of interest to federal, state and local agencies. In modeling of stream-aquifer interactions, one of the most critical databases is of streambed conductivity, discussions of which are very scarce in the literature and earlier investigations of stream systems. Consequently, investigation of streambed conductivities is theoretically and practically important to understanding stream-aquifer interactions.