



## WATER RESOURCES RESEARCH GRANT PROPOSAL

**Project ID:** 2002SD3B

**Title:** Hydrology model calibration in a glacial till system

**Project Type:** Research

**Focus Categories:** Agriculture, Hydrology, Non Point Pollution

**Keywords:** Agriculture, Soil Water Movement, Soil Physics

**Start Date:** 01/03/2003

**End Date:** 02/28/2004

**Federal Funds:** \$17300.00

**Matching Funds:** \$35531.00

**Congressional District:** First

**Principal Investigators:** Trooien, Todd P.; Werner, Hal D.

**Abstract:** Runoff models could be used for estimating impacts in eastern South Dakota but they require validation with measured field data to be credible. This project will measure runoff rate and volume and be used to calibrate a runoff model such as HEC. Two sites have been established in small agricultural watersheds and will be used for this study. Additional data to be collected include precipitation at the sites, drain line flow rate, and water table elevations. Evapotranspiration will be estimated with measured weather data. One MS-level graduate student will be funded with this project.

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*Last Modified: Wed June 11, 2003 12:06 PM*

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