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# WATER RESOURCES RESEARCH GRANT PROPOSAL

**Project ID:** 2003UT29B

**Title:** Source Water Protection Assessment Tools Development

**Project Type:** Research

**Focus Categories:** Water Quality, Hydrology, Models

**Keywords:** Drinking Water, Watersheds, Pollutant Transport

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**Federal Funds:** $56509.00

**Matching Funds:** $112352.00

**Congressional District:** UT 1

**Principal Investigators:** Ronald C. Sims;Sorensen, Darwin L. (Utah Sate University)

**Abstract:** A computer-based tool to assist in determining the susceptibility of drinking water sources to contamination is being developed. The tool improves the use of scientific information and professional experience in the susceptibility assessment process. The work proposed here is a continuation of a research project addressing this topic. Considerable progress has been made in designing and programming the assessment tool. Specific practical objectives are to:
1) Complete the integration of shallow or unconfined ground water pollutant transport simulation with the existing surface water transport model to provide an estimate of conjunctive pollution potential.
2) Develop and implement an approach to expressing uncertainty in the pollution concentrations developed with the predictive tool.
3) Conduct a one-day workshop for drinking water source managers in Utah and the intermountain region. The assessment tool will be introduced, basic instruction on the concepts and processes used to develop the tool will be presented, and hands-on practice in the use of the tool will be facilitated.

*U.S. Department of the Interior*, *U.S. Geological Survey*
*Maintain: Schefter@usgs.gov*
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