



## WATER RESOURCES RESEARCH GRANT PROPOSAL

**Project ID:** OR4661

**Title:** Interactive Web Site for Streamflow Evaluations in Watershed & Habitat Restoration Planning

**Focus Categories:** Hydrology, Surface Water

**Keywords:** streamflow, hydrology, hydrologic evaluations, internet, databases, watershed assessment, habitat assessment

**Start Date:** 03/02/2001

**End Date:** 03/01/2002

**Federal Funds:** \$10,799

**Non-Federal Matching Funds:** \$22,639

**Congressional District:** 5th

**Principal Investigator:**

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**Abstract**

Many stream projects are undertaken for watershed enhancement and habitat improvement with only limited hydrologic input. This is particularly the case when project budgets are small, funds are devoted to "structures" rather than analysis, and volunteers are relied upon for technical guidance. It is proposed to develop a web site to facilitate hydrologic evaluations and supporting guidance in hydrologic methods applicable to ungaged sites on small and moderate-size streams. Efficient methods will be developed to convert and expand two existing computer data bases (one developed for mainframe application and the other for PC application) into formats that may be used interactively on a web site. This will allow improved versions of the older statewide OSU/WRRI low-head hydropower streamflow simulation data sets and the recent OSU/CCEE-CE543 sub-state data sets to be accessed, manipulated, and used in planning for a variety of stream projects. Links will be provided to original or supporting data. Methods will be described for making analyses for different kinds of projects, as well as for acquiring original databases. Illustrations will be provided of use to assess streamflow characteristics for (1) stream habitat projects, particularly for EAS-listed species, (2) stream restoration projects, and (3) culvert evaluations.