

Connecticut Institute of Water Resources

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Mission and Origins

The Connecticut Institute of Water Resources (CT IWR) is a part of a national network of 54 state water institutes created by the Federal Water Resources Research Act of 1964 to promote federal/state partnerships in water resources research and information transfer.

While located at the University of Connecticut, the Institute's mission is to cooperate closely with all colleges and universities in the state to resolve state and regional water related problems, and provide a strong connection between water resource managers and the academic community.

Liaison Activities

CT IWR responds to environmental issues in Connecticut through a statewide Advisory Board and through its involvement with state water resource committees. Membership reflects the main constituency groups for the Institute: government agencies, environmental groups, the water industry and academic researchers.

This past year, the CT IWR continued to be involved in the work of the statewide Water Planning Council, created by an act of the state legislature. The Council's mission is to "... identify issues and strategies which bridge the gap between the water supply planning process and water resources management ..." The Institute contributed technical expertise regarding Instream Flow methodologies for water resource investigations and decision support.

Research Program

The Institute facilitates and funds applied and basic research in response to annual priorities established by the Advisory Board, via a competitive RFP process. The research program also supports the training of future water resource professionals by providing financial support to graduate and undergraduate students. Abstracts of recent projects can be found on our web site. Projects funded in 2004-2005 include:

- **"Chaotic advection enhanced groundwater remediation,"** Ross Bagtzoglou, University of Connecticut.
- **"The dual influence of Alewife, *Alosa pseudoharengus* on water quality,"** David Post, Yale University.
- **"Investigating the influence of purging on long-term remediation compliance monitoring,"** Gary Robbins, University of Connecticut.

Fenton River Project: The University of Connecticut is sponsoring an IWR research project in the Fenton River watershed, to determine the effect of well-water withdrawals on flows. The results of this study will be used to assess the potential impact of development in the watershed on streamflow.

Information Transfer

The Institute conducts a number of information and technology transfer activities through its **Water Resources Technology Transfer Initiative** project.

Web Site and Publications: The Institute's web site contains abstracts of recent research projects, the current year's seminar series, a publication database, special project information and links to other water related sites.

Aquatic Nuisance Species: Through a grant from the Connecticut SeaGrant program, the institute is coordinating the writing of the ANS plan for the state of Connecticut. The approval of this plan will make the state eligible for federal funds for projects that will prevent the introduction and spread of ANS.

Rainfall Publication: We recently published (see web) a report on **updated historical precipitation statistics** for Connecticut that shows changes in long-term trends and the probabilities of extreme events.

For more information on our program, please contact us or visit our web site at:
www.ctiwr.uconn.edu