



NEW HAMPSHIRE WATER RESOURCES RESEARCH CENTER



Projects funded in 2013-2014

- Water quality and the landscape: Long-term monitoring of rapidly developing sub-urban watersheds.
- New Hampshire WRRRC Information Transfer
- Participatory water quality assessment through the NH Lakes Lay Monitoring Program.
- Natural dams and biogeochemistry at the river network scale: implications for water quality
- Contribution of fluvial wetlands to nitrogen retention in urbanizing coastal watersheds in New England across multiple scales

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History The New Hampshire Water Resources Research Center (NH WRRRC), located on the campus of the University of New Hampshire, is an institute that serves as a focal point for research and information on water issues in the state and region. This Center was incorporated into the National Institutes for Water Resources program in 1965 as one of the original 14 state institutes.

Mission The primary charges of each institute are: **research, technology transfer and education of new professionals.** The institutes accomplish these charges through Federal and state funding mechanisms.

Research Annually, the NH WRRRC supports several research projects, typically focused on hydrology, water quality or social science research in New Hampshire. One of the primary activities of the NH WRRRC over the past 11 years has been to **document the water quality in suburban New Hampshire basins.** Although water quality is good overall, and does not yet limit water supply, our results have shown that a

number of important water supplies are threatened or impaired by arsenic, chloride and nitrate. Some waters have been listed as impaired on the basis of our research, thereby allowing for planning to improve water quality and maintain a reliable water supply.

Technology and Information Transfer

Information transfer occurs through phone conversations and public presentations or discussions. The NH WRRRC web site (www.wrrc.unh.edu) provides access to NH WRRRC projects, publications and news items regarding New Hampshire water issues. Staff also make presentations at national and international meetings on a variety of scientific topics.

The NH WRRRC co-sponsors the **Annual NH Water and Watershed Conference** which is designed to meet the information and networking needs of researchers, students, legislators, water system operators, land use planners, government officials, consultants and watershed groups. It typically draws over 250 attendees. The NH WRRRC also sponsors an **Annual Science Symposium**



Lamprey River at Packers Falls, Durham, NH. Surface waters throughout the Lamprey River watershed (located in the most rapidly developing region of New Hampshire), are sampled regularly to monitor water chemistry in a changing landscape.

dedicated to exchanging research results from a rapidly developing watershed among scientists and local managers.

Education

Education plays a vital role at the NH WRRRC. Most of the research projects funded by the NH WRRRC involve graduate students, undergraduates and professors at the University of NH, creating learning opportunities for students with an interest in water research.

Water Quality Analysis Laboratory

The Water Quality Analysis Lab (WQAL) provides **high-quality, reasonably priced analyses** in support of research projects conducted by scientists and students of the University of NH, the state, and the nation.