

Water and Ecosystems Management



RTI International is at the forefront of efforts to address water supply and water quality issues in the United States and around the world. RTI delivers innovative solutions to complex water resource problems by combining expertise in hydrology, ecology, engineering, economics, and information technology. We have significantly advanced the state of the art in hydrologic simulation with the release of our new Watershed Flow and ALlocation (WaterFALL™) model.

Overview

Global water supply and quality problems are addressed more effectively and efficiently by adopting an integrated, watershed-based perspective. RTI's depth and breadth of scientific resources enables us to take a truly multidisciplinary approach to solving watershed management problems that incorporates both natural and applied social sciences. For example, we are currently engaged in a multi-year project to design and implement a hydrologic modeling platform for Latin America that includes a comprehensive program to train and build local capacity in the use of the model.

Areas of Expertise

- Modeling and decision support tool development
- Ecological flow determination
- Water supply vulnerability analysis
- Watershed-based TMDL development
- Water quality trading
- Use attainability and ecosystems services valuation

Project Highlights

- Integrative model of climate change and water resources in Latin America
- Long-term vulnerability of water supplies in the southeastern United States
- Development of pathogen TMDLs for Lake Michigan beaches
- Economic impacts of dam removal in the Klamath River Basin
- Water resources assessment and management policy review in Yemen
- Vulnerability of agricultural commodities to water shortages in the Snake River Basin
- Identification and evaluation of water quality stressors in headwater streams

More Information

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RTI International is one of the world's leading research institutes, dedicated to improving the human condition by turning knowledge into practice. Our staff of more than 2,800 provides research and technical services to governments and businesses in more than 40 countries in the areas of health and pharmaceuticals, education and training, surveys and statistics, advanced technology, international development, economic and social policy, energy and the environment, and laboratory testing and chemical analysis. For more information, visit www.rti.org.

RTI International is a trade name of Research Triangle Institute.

