



Center for Water Resources

DRIVING SUSTAINABLE USE OF WATER

Become more resilient in the face of increasing water demands, water scarcity, extreme weather events, and hydrological uncertainty. The RTI Center for Water Resources can provide you with the tools and information you need to make strategic, sustainable decisions. See how you can optimize your water resources while reducing costs, minimizing risk, and improving operational efficiency.

rti.org/cwr





SECTORS

The RTI Center for Water Resources (CWR) uses advanced data management, analysis, and modeling to deliver evidence-based solutions across four broad sectors.

Hydropower

GUIDING USE OF WATER RESOURCES FOR SAFE AND RELIABLE POWER GENERATION

Increase the power of your decision making across all phases of hydropower planning and operations. Our hydropower services include:

- Project Planning and Feasibility
- Dam Safety and Risk Assessment
- Reservoir Operations, Optimization, and Forecasting

Water Supply

HELPING MANAGERS ENSURE A RELIABLE WATER SUPPLY TODAY AND FOR YEARS TO COME

Meet current and future water demands in the face of uncertain future conditions. Our water-supply services include:

- Planning and Allocation
- Climate Resilience
- Source Water Protection
- Data Management

Floods

PROVIDING SUPPORT FOR PLANNING AND GUIDANCE IN THE FACE OF EXTREME EVENTS

Successfully monitor, prepare for, and respond to high-flow events caused by excessive rainfall or dam failure. Our flood-related services include:

- Hydrometeorological Monitoring
- Flood Forecasting and Warning
- Hydrologic Risk and Consequences Assessment

Ecosystems

ASSESSING FRESHWATER ECOSYSTEMS FOR RESOURCE MANAGEMENT AND PROTECTION





Analyze and protect healthy ecosystems through solutions that combine water quality, social science, and biological perspectives. Our ecosystem services include:

- Decision Support and Analyses
- Ecological Flow Conditions
- Water Quality and Quantity



SERVICE AREAS

Get the right information at the right time to effectively address water-, land-, and climate-related concerns. CWR offers realistic, sustainable solutions across nine service areas:

-  **Monitoring and Forecasting**
Providing timely and relevant information about current and future water resources conditions
-  **Hydro-economics**
Evaluating the value of water to society and economic trade-offs for water-related decisions
-  **Risk Assessment**
Characterizing water-related risk to inform strategy and minimize adverse outcomes
-  **Source Water Protection**
Identifying and mitigating impacts of land use and human activity on water quality and quantity
-  **Climate Resilience**
Predicting and mitigating impacts to water resources caused by climate variability and change
-  **Ecological Assessment**
Assessing the health of—and guiding protective actions for—watersheds and aquatic habitats
-  **Planning and Allocation**
Guiding management of surface water and groundwater sources to meet current and future demands
-  **Data Management**
Building and implementing advanced systems to translate data into actionable information
-  **River Basin Operations**
Modeling, optimizing and guiding operations of managed river and reservoir systems

GLOBAL REACH

Over the past 30 years, U.S. federal and international government agencies, water and hydropower companies, and private sector organizations have collaborated with our team of scientists and engineering experts to complete more than 2,500 projects worldwide. Find out how we can help you.



Center for Water Resources

rti.org/cwr

