EPA United States Environmental Protection Agency

SAFE AND SUSTAINABLE WATER RESOURCES RESEARCH PROGRAM

SSWR Research Program Overview

Office of Research and Development
FY19-22 StRAP

Research Vision

SSWR's commitment to robust research and scientific analyses will support innovative scientific and technological solutions that ensure adequate supplies of clean water to protect people's health and livelihood, to protect and restore watersheds and aquatic ecosystems, and to strengthen the economy.

Addressing Environmental Challenges

The SSWR Strategic Research Action Plan (StRAP) addresses the interrelated challenges of impaired watersheds and water quality that collectively threaten our Nation's water resources :

- Persistent and new contaminants
- Excess nutrients and harmful algal blooms
- Diminished water availability
- Aging water infrastructure
- Knowledge gaps in the value of water quality

Communication and Outreach

SSWR recognizes the importance of disseminating information, data, and models and tools to partners, stakeholders, and the public though communication and outreach activities.

Research website: epa.gov/water-research
Webinars: epa.gov/water-research/water-research-webinars
Workshops: epa.gov/water-research/16th-annual-epa-drinking-water-workshop
Fact sheets: epa.gov/water-research/water-research-fact-sheets
Featured articles: epa.gov/sciencematters/

Research Topics

Watersheds

Will advance integrated water quality and watershed management tools to protect and restore water resources. Research in this topic will provide nationally- and regionally-consistent tools to assess ecological status and trends, set attainable goals, and monitor progress toward these goals.

Nutrients and Harmful Algal Blooms

Will comprehensively address nutrient issues and one of the primary impacts of excess nutrients in water bodies—HABs. HABs research will focus on detection, toxicity, and impacts to humans and biota, and tools to mitigate exposure. Nutrients research will address nutrient-related impacts in watersheds and water bodies and support water quality management goals.

Water Treatment and Infrastructure

Will provide innovative methods for assessing and treating water from source to tap and back to the source for enhancing water supplies. Focuses on the assessment and control of opportunistic pathogens and disinfection byproducts, analytical methods development, optimization and application of tools for improving water infrastructure, and augmentation of reliable water sources through research on water reuse and stormwater capture.