WATER QUALITY MODELING
Basics and Beyond

About the Water Quality Modeling Basics and Beyond Webinar Series

EPA's Water Quality Modeling Workgroup is hosting a series of webinars to help water quality professionals better understand surface water quality modeling and how models can be used to solve common problems that face water quality regulators. The webinars are focused on modeling as it applies to the Total Maximum Daily Load (TMDL), Standards, and Water Quality Permitting Programs, but they are applicable to a wide range of audiences. These two hour webinars cover everything from modeling basics (e.g., model setup and calibration) to applied water quality modeling of different pollutants.

Target Audience

The target audience is Clean Water Act (CWA) water quality regulators in programs such as TMDLs, monitoring, wetlands, standards, nonpoint sources, permitting, and assessment. The Webinar content assumes that audience members have an understanding of basic hydrology and water quality principles. The Webinars are open to everyone and will be relevant to anyone conducting water quality investigations.

Webinars are recorded and archived on EPA's website at https://www.epa.gov/waterdata/surface-water-quality-modeling-training.

Hydrologic and Water Quality System

The Hydrologic and Water Quality System version 2 (HAWQS 2.0) is a free and publicly available web-based interactive water quantity and quality modeling system. The modeling system employs the modeling engine of the Soil and Water Assessment Tool (SWAT), an internationally recognized public domain model. HAWQS 2.0 provides users with: interactive web interfaces and maps; pre-loaded input data that can be further customized; visualization and processing of results as tables, charts, and raw output data; a user guide; and online development, execution, and storage of a user's modeling projects to reduce local computing requirements.

HAWQS Version 2

This webinar will introduce version 2 of the Hydrologic and Water Quality System (HAWQS). Compared to HAWQS 1.2, HAWQS 2.0 features new and updated input datasets, new modeling functionality, and novel interface features to enhance user experience which will be discussed in more detail during the webinar. Topics that will be covered during the webinar include:

- Overview of HAWQS and what's new in v2.0
- Creating a project and scenarios
- Customizing scenario (SWAT) inputs
- Example BMP scenario
- Output visualization

HAWQS 2.0 can be accessed here: https://hawqs.tamu.edu/#/

Speaker: Katie Mendoza, Texas A&M University

October 17, 2024

Eastern: 12–2 pm | Central: 11 am–1 pm | Mountain: 10 am–12 pm
Pacific: 9–11 am | Alaska: 8–10 am

Sponsored By: EPA Water Quality Modeling Workgroup

Registration: You must register in advance to participate in this free Webcast. Please register at: https://events.teams.microsoft.com/event/655b7867-db0b-4950-b174-0bbdfdabf6f4@81a26399-c28c-43fd-8629-d808a7ad9521

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