



GaiaXus

Water quality monitoring systems
for citizen science & education

February at GaiaXus

Water Guardians in Ohio!

Fourteen schools in Ohio are now equipped with our GaiaXus' Water Guardians, empowering students to explore water quality through real-world data collection and scientific inquiry. By providing hands-on tools and technology, this initiative is fostering the next generation of environmental scientists. Teachers and students are engaging in meaningful STEM learning, connecting classroom concepts to local water systems, and gaining critical skills in data literacy and environmental stewardship. [Read the full story](#)



Understanding the Impact of Wildfires on Water Quality

Forest fires alter landscapes, leaving behind ash and sediment that enter rivers and streams. These materials affect water clarity, conductivity, and overall ecosystem health. Monitoring these changes provides valuable insights into environmental recovery and resilience.

The **GaiaXus Water Guardian** enables citizen scientists to systematically measure key water quality parameters, including **temperature, conductivity, turbidity, and clarity**. Data is recorded and stored securely, facilitating long-term studies and collaboration with researchers.

For Educators: Wildfire-related water contamination can be simulated in the classroom. Using the Water Guardian, students can analyze how suspended particles influence water quality and examine how wood ash impacts conductivity through filtration experiments. **Download our teaching guide below.**

[Download our teaching guide](#)

Key Contributions:

- **Environmental Monitoring** – Supports data collection on post-fire water quality trends.
- **Educational Applications** – Provides hands-on learning for students in environmental science.
- **Research Collaboration** – Contributes to broader scientific understanding of fire-related water pollution.

Expanding knowledge about wildfire impacts on water systems is essential for ecosystem management and climate resilience. Citizen science initiatives play a critical role in gathering meaningful data to inform conservation efforts.

Join us in safeguarding our water resources and fostering the next generation of environmental stewards. **Get in touch to learn more or start a pilot program in your area!**



Interested in bringing GaiaXus to your event,
classroom, or community? We would love to hear from you!

Get in touch



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