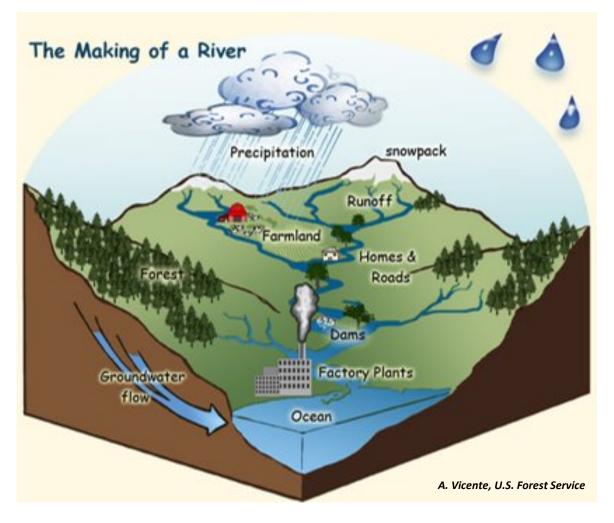
Georgia Adopt-A-Stream Introduction



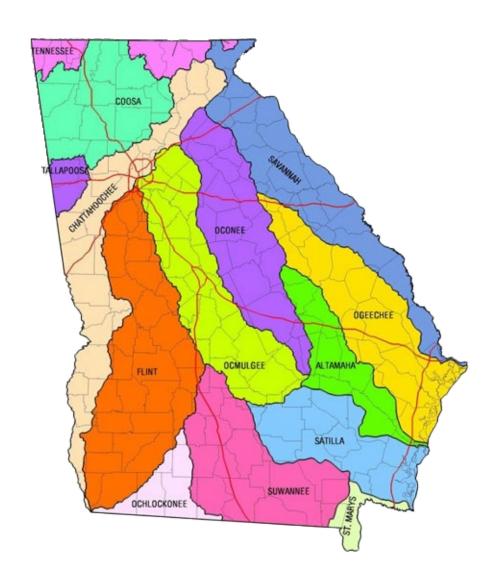


What is a Watershed?

- A land area from which
 water, sediment, and
 dissolved materials drain to a
 common point along a stream,
 wetland, lake, or river.
- Its boundaries are defined by the highest points of land around the waterbody.



Where is Your Watershed?





Point vs. Nonpoint Source Pollution

Point Source

- Easily identifiable pollutant source
- Regulated by GA EPD through the NPDES permitting process







Point vs. Nonpoint Source Pollution

Nonpoint Source

- Sources that are not easily distinguishable or identifiable
- Everyone contributes
- The main cause of water quality problems in GA







Why Monitor Water Quality?

- Our quality of life is directly related to the quality of the rivers, streams and wetlands around us.
- Regular monitoring provides baseline information about the health of our local streams and other water bodies.
- All the water we have now is all the water we'll ever have!



What is Georgia Adopt-A-Stream?



Georgia Adopt-A-Stream

A citizen science water quality monitoring program encouraging all Georgians to get familiar with their watersheds, monitor impacts, improve streams, rivers, wetlands, lakes, and estuaries, and inform others about their effect on water quality.



Awareness



Increase public

awareness of nonpoint
source pollution & water
quality issues

Data



Collect baseline water quality <u>data</u> according to Adopt-A-Stream protocols

Observations



Take <u>observations</u> of sites to note water quality conditions

Partnerships



Seek <u>partnerships</u> with local gov'ts, nonprofits, & other organizations to share results & resources

Tools & Training

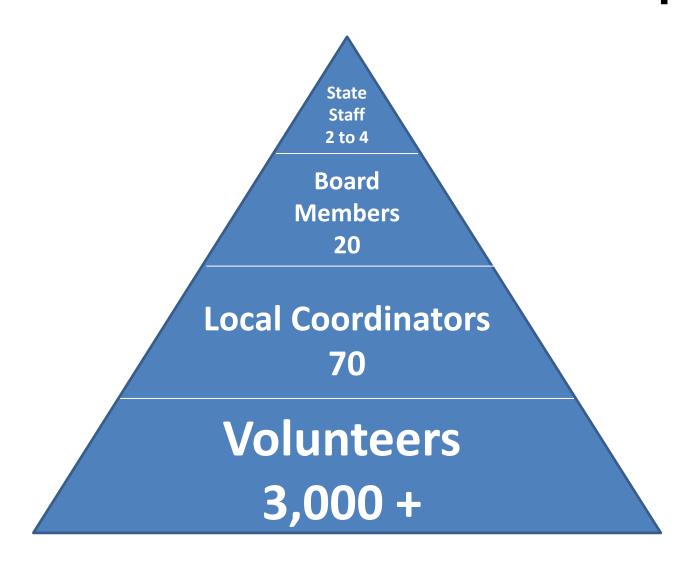


Utilize tools & training provided by staff & local coordinators

Volunteer Network and Support



Volunteer Network and Support



Getting Started with AAS

- I. Determine Your Goals
- 2. Attend a Monitoring Workshop
- 3. Form a Group and Select a Site
- 4. Obtain Equipment
- 5. Start Monitoring!

Determine Your Goals

- Questions to consider:
 - Why do I want to monitor?
 - What site might I like to adopt?
 - What type of data do I want to collect?
 - Who might be interested in my data?
- Can be driven by group, site, community, etc.
- Goals may shift over time, but can help focus monitoring efforts and maintain participation



Attend a Monitoring Workshop

- QA/QC workshops
 - Quality Assurance/Quality Control
 - Procedure based data collection
 - More frequent monitoring
- Non-QA/QC workshops
 - Observational data collection
 - Less frequent monitoring
- Allows you to create an AAS account



QA/QC Monitoring Programs

Macroinvertebrate

- Test for stream macroinvertebrate diversity
- Survey quarterly or once every season

Chemical

- Test for basic parameters: dissolved oxygen, temperature, pH, & conductivity
- Survey monthly

Bacterial

- Test for *E. coli* bacteria, which can indicate the presence of pathogens
- Survey monthly



Quality Assurance Project Plan

Certification

- QA/QC and Trainer workshops
- Annual recertifications
- Consistent monitoring schedule and set protocol

Database

- Only certified volunteers can enter and edit data
- Errors and warnings



Non-QA/QC Monitoring Programs

Watershed Survey

- Map your watershed and conduct survey of the land uses around your waterbody
- Survey annually

Visual Stream Monitoring

- Visual and physical evaluation of stream conditions
- Survey quarterly or once every season

Amphibian Monitoring

- Passively monitor for frogs and salamanders
- Survey quarterly or once every season



Form a Group and Select a Site

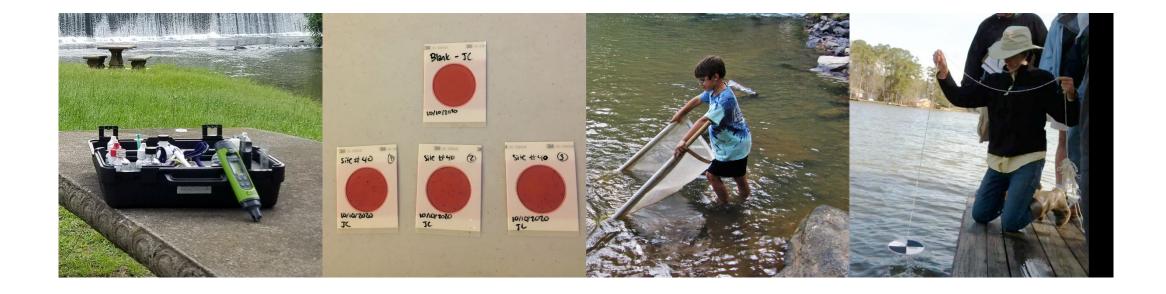
Form a Group

- Must register a group to register site and enter data
- Can be an individual, but recommend at least 2 people
- Community groups, classes, families, etc.
- Select a Site
 - AAS does not assign sites
 - Ask local coordinators for suggestions
 - Easy, safe, and legal to access!



Obtain Equipment

- Purchasing info on AAS website
- Reach out to local coordinator for loan
- Contact state office



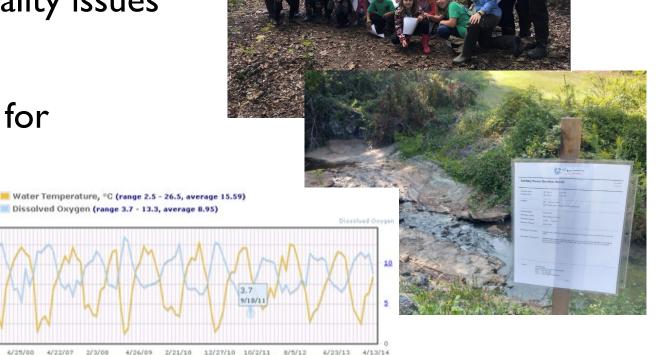
Start Monitoring!

- Set up monitoring schedule
- Consistently monitor one or more sites
- Submit and review data
- Follow up on problems

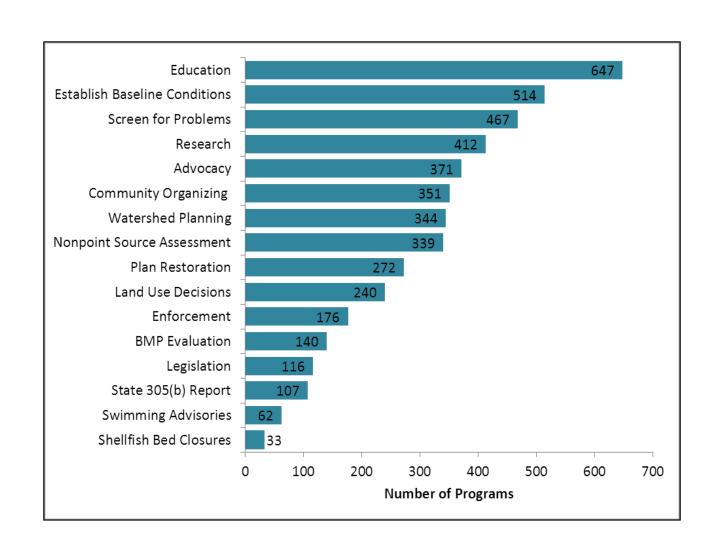


How are your data used?

- Establish baseline conditions for waterbodies across the state
- Discover and report water quality issues
- Educate your community
- Help inform status of streams for 303d/305b list



Volunteer Monitoring Data Uses



More Ways to Get Involved

Confluence

- Annual volunteer conference
- Expert talks and workshops
- Networking and social events

Awards

- Volunteers
- Trainers
- Watershed groups
- Quarterly E-Newsletter
- Green Infrastructure
 - Stream restoration
 - Rain gardens and barrels









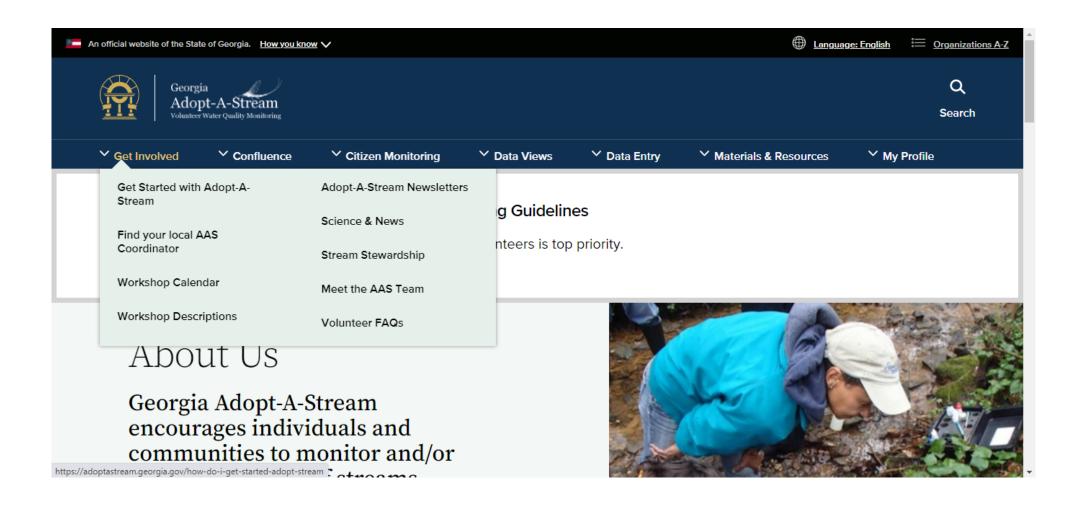
January-March 2021 Newsletter

- . The Georgia Green Landscape Stewards Program
- Confluence 2021 Recan
- · Farewell to Jenna Dodson, State Coordinato
- Program Updates
- Riffles Around Us

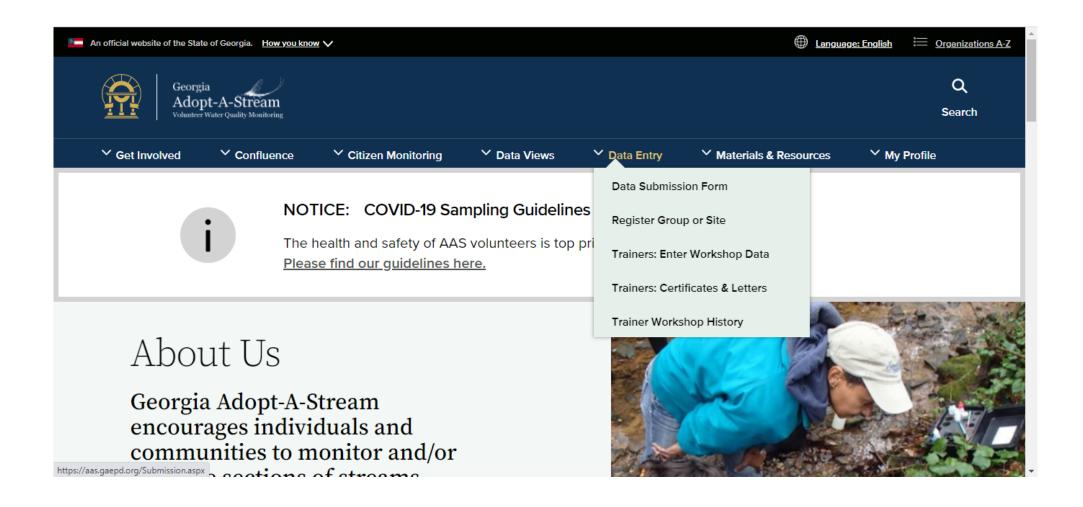
The Georgia Green Landscape Stewards

The Georgia Green Landscape Stewards program, created by the University of Georgia Extension, provides educational resources that teach Georgians about protecting natural resources, increasing plant and animal biodiversity, conserving soil and water, providing wildlife and pollinator habitat, and improving public and environmental health. After learning about sustainable land management practices participants can measure their own activities with the program metric scorecard and earn 'Georgia Green Landscape' certification status for their landscape.

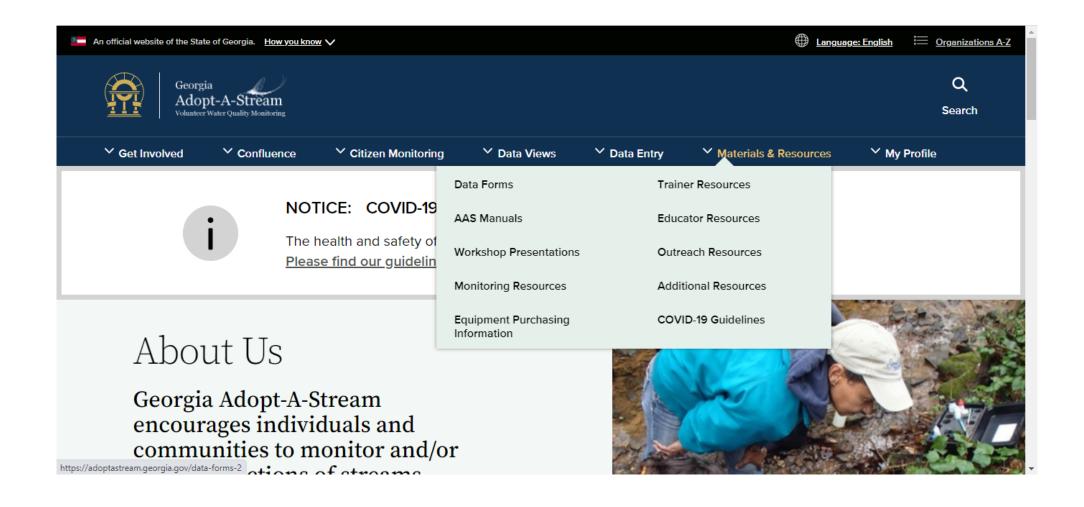
AAS Website - Get Involved



AAS Website - Data Entry



AAS Website - Materials & Resources

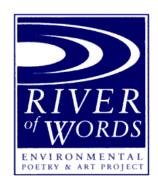


Other EPD Outreach Programs

- Rivers Alive- Georgia's statewide annual volunteer waterway cleanup program
- Project WET (Water Education Today)-Curriculum designed for formal and nonformal educators of K-I2 students to promote stewardship of water resources
- River of Words- Annual youth poetry and art contest that inspires children to translate observations of their watersheds into creative expression







Follow AAS and Stay Connected!

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- AdoptAStream.Georgia.gov
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