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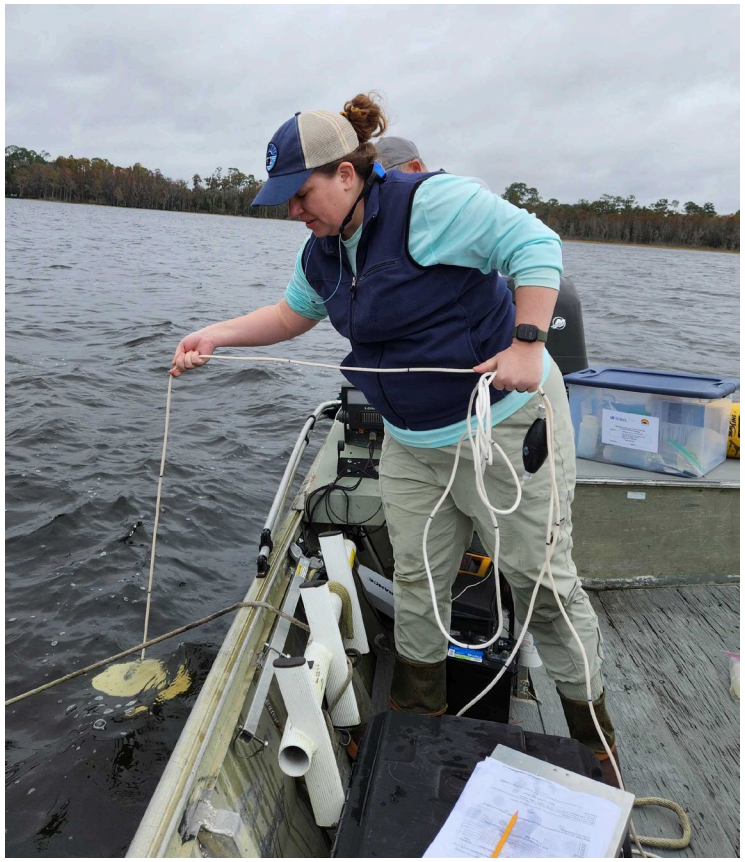
Florida LAKEWATCH
CITIZEN SCIENCE SINCE 1986

FLORIDA LAKEWATCH: 37 YEARS OF VOLUNTEERISM DRIVING RESEARCH OF FLORIDA'S AQUATIC RESOURCES.

Marina Schwartz, *Jason "Mo" Bennett, Dan Willis, Christine Horsburgh, Mark Hoyer, Liz Moreau, Zhuona Li, Gretchen L. Lescord*

Objectives



(re)Introduce Florida LAKEWATCH

Highlight the program's impact

Research interests & goals

Connect!

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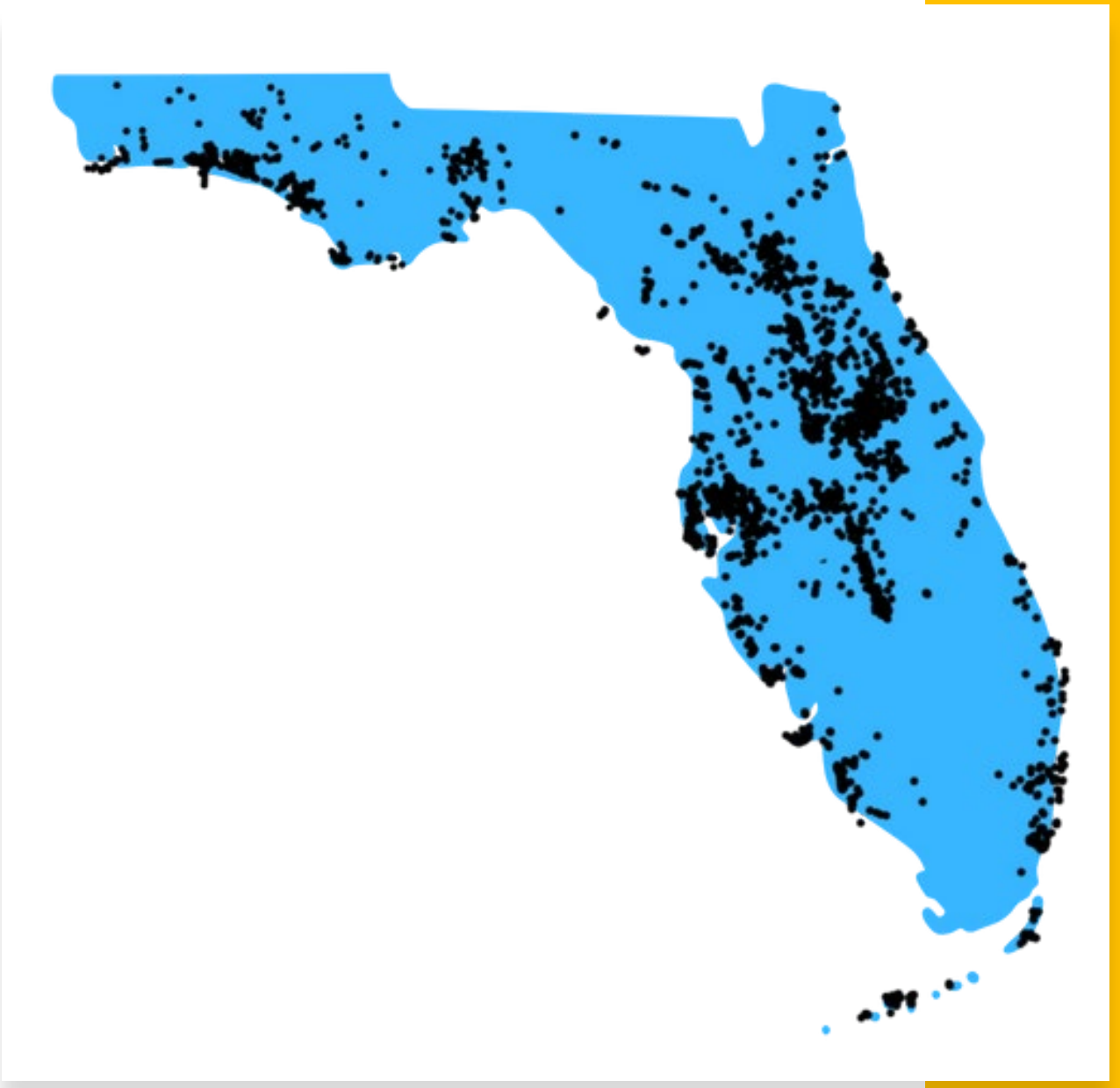
Florida LAKEWATCH is one of the country's largest volunteer science programs.

- Research, teaching, & extension
- Long-term water quality
- "Citizen Scientists"
- Founded in 1986 by Dr. Canfield

Former LAKEWATCH Director Mark Hoyer, 2022

Where do we sample?

- 6000 sites
- 2000 water bodies
- And growing!



Florida LAKEWATCH

Thank you, volunteers!

1800 and counting

37 years!

>442,000 data points

Shared in 25 countries

60 peer-reviewed papers

40 student theses

Bibliography

Following is a bibliography of peer reviewed scientific articles that have been published by Florida LAKEWATCH personnel. Click on each of the topics below to view articles related to that topic:

- **Water Chemistry**
- **Nutrient Criteria**
- **Aquatic Plants**
- **Fish Populations**
- **Aquatic Bird Populations**
- **Water Management**

Research highlights:

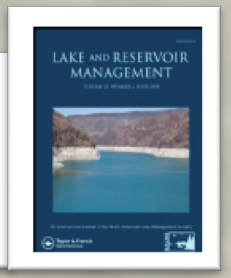
How geological and weather patterns influence lacustrine chemistry

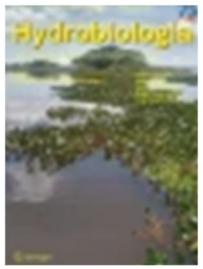
How the biotic and abiotic environment alters bird and fish community structures

The quality of volunteer collected data

Regional Geology and the Chemical and Trophic State Characteristics of Florida Lakes

Daniel E. Canfield Jr. & Mark V. Hoyer





Bird abundance and species richness on Florida lakes: influence of trophic status, lake morphology, and aquatic macrophytes

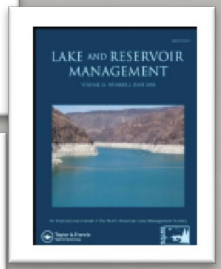
Mark V. Hoyer & Daniel E. Canfield, Jr.
Department of Fisheries and Aquaculture, University of Florida, Gainesville, Florida 32611, USA

Relations between trophic state indicators and fish in Florida (U.S.A.) lakes[1]

Roger W. Bachmann, Bradley L. Jones, Donald D. Fox, Mark Hoyer, Lawrence A. Bull, and Daniel E. Canfield, Jr.

Lack of exotic hydrilla infestation effects on plant, fish and aquatic bird community measures

Mark V. Hoyer, Melissa Woods Jackson, Micheal S. Allen and Daniel E. Canfield, Jr.



A comparison between professionally (Florida Department of Environmental Protection) and volunteer (Florida LAKEWATCH) collected trophic state chemistry data in Florida

Mark V. Hoyer [a] , Nijole Wellendorf [b] , Russel Frydenborg [b] , Drew Bartlett [b] & Daniel E. Canfield Jr. [a]

DOI: 10.1080/07438148809354375

DOI: 10.1007/BF00027846

DOI: 10.1023/A:1015660922494

DOI: 10.1080/07438140809354843

Research highlight:

Hoyer et al 2012

DOI: 10.1080/07438141.2012.736016

Lake and Reservoir Management

Publication details, including instructions for authors and subscription information:
http://www.tandfonline.com/loi/ulrm20

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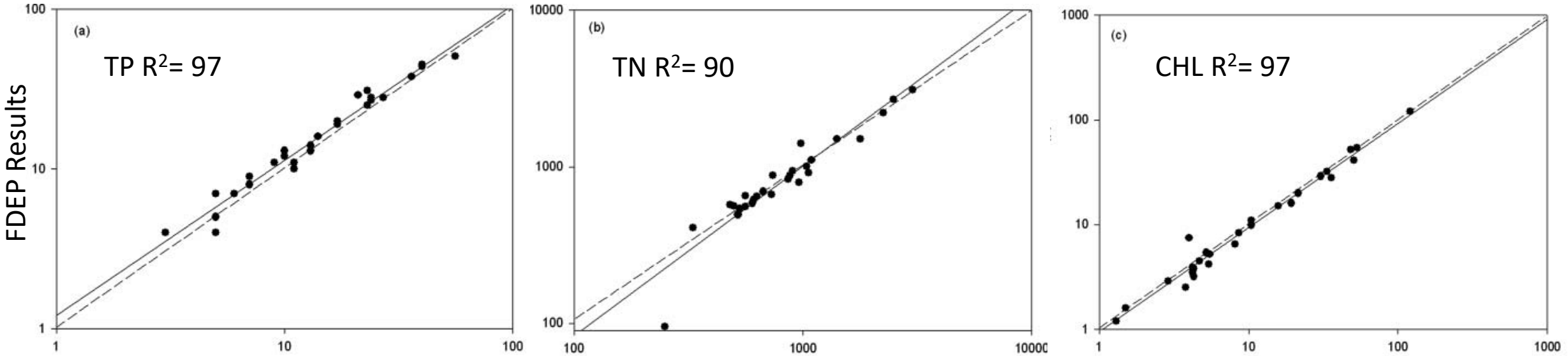

How does the program work?

Fieldwork & extension

Monthly volunteer sample & data collection

Lab work

Sample analyses

Data management

Data consolidation, analysis, & sharing

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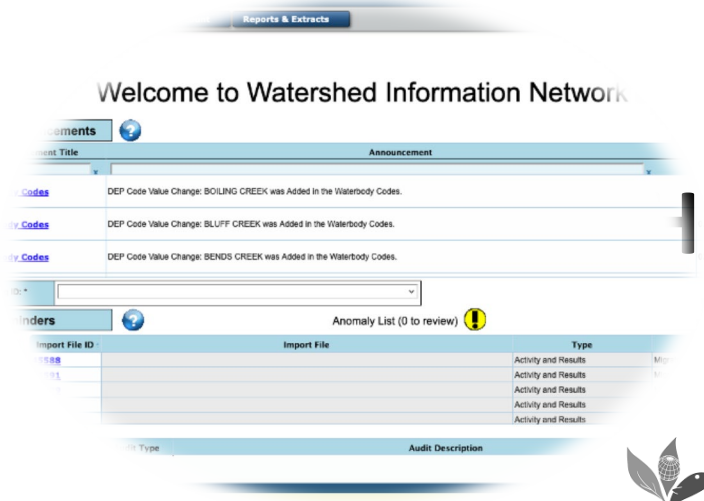
Stakeholder engagement & info sharing



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Research, Teaching, Extension: aquatic ecosystem health & management

Dr. Gretchen Lescord

Director of Florida LAKEWATCH and Assistant Professor of Applied Limnology

Freshwater research interests include:

- environmental contaminants
- food webs
- invasive species
- landscape disturbances
- public health implications

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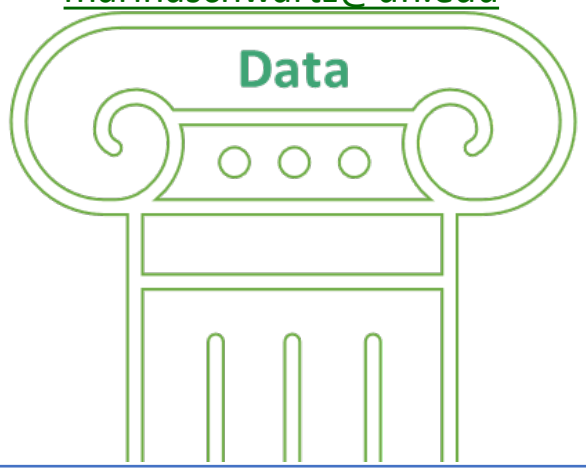

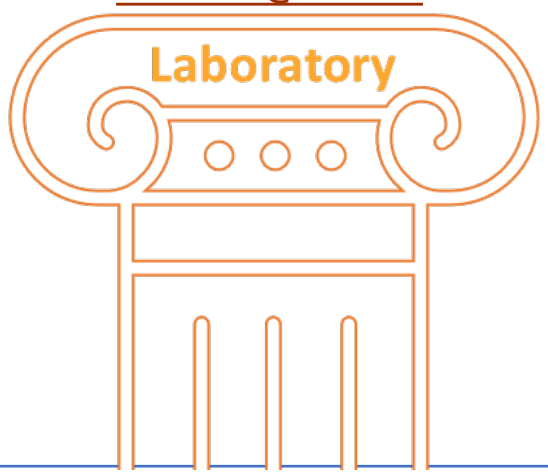

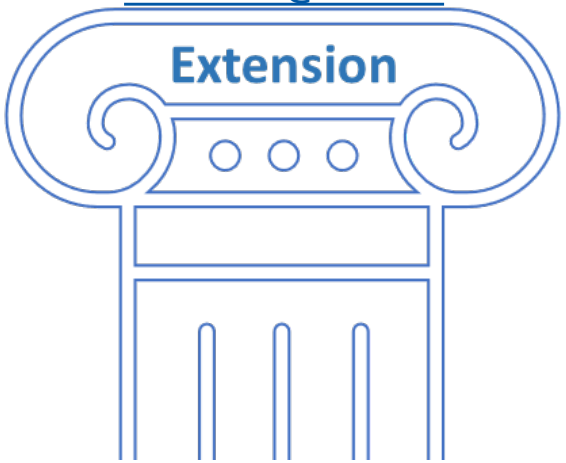

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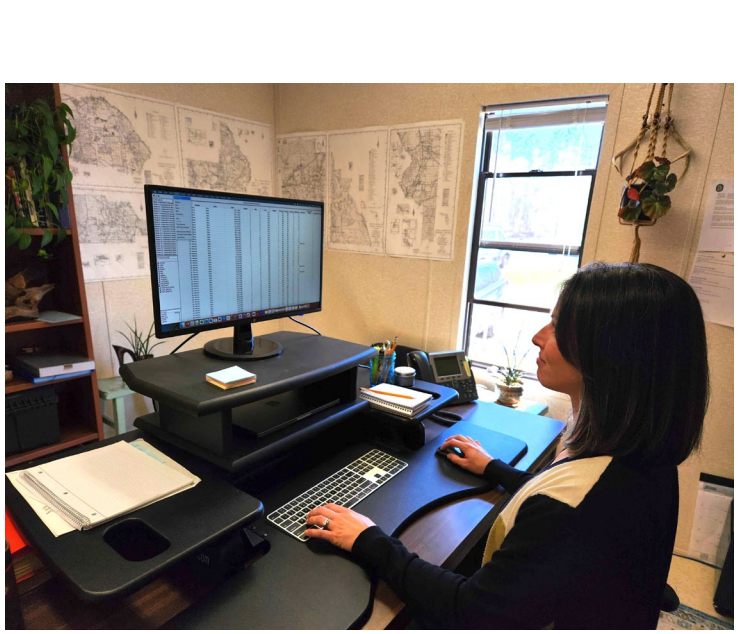

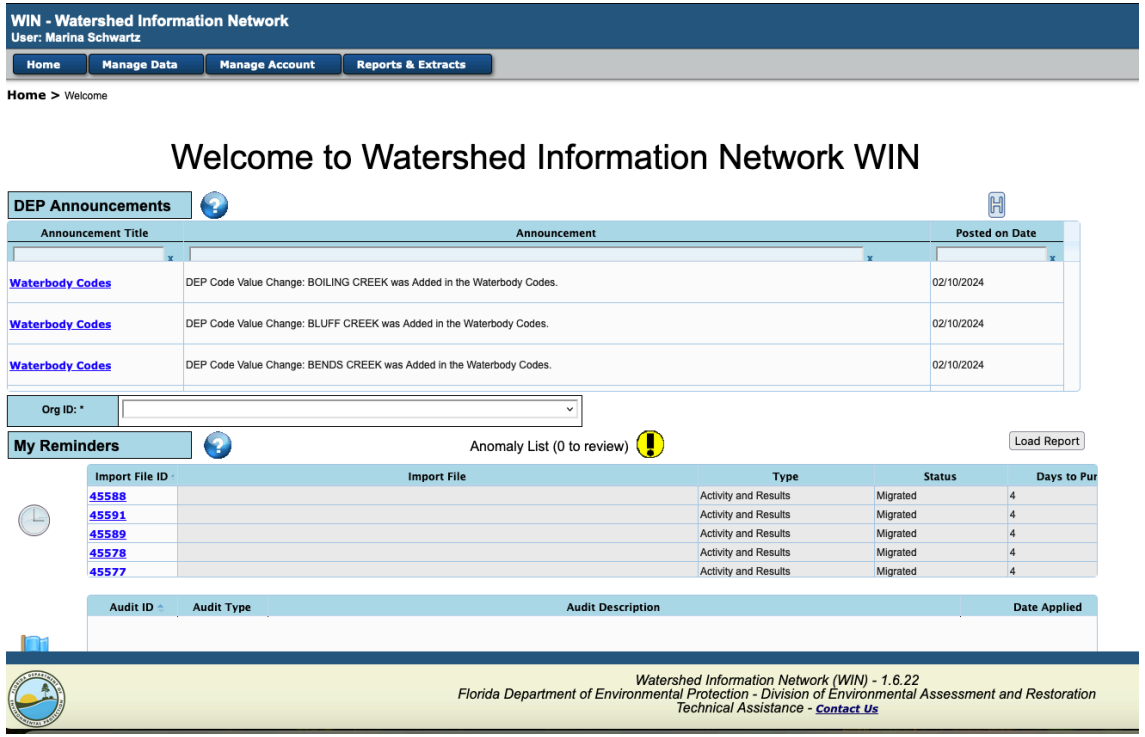

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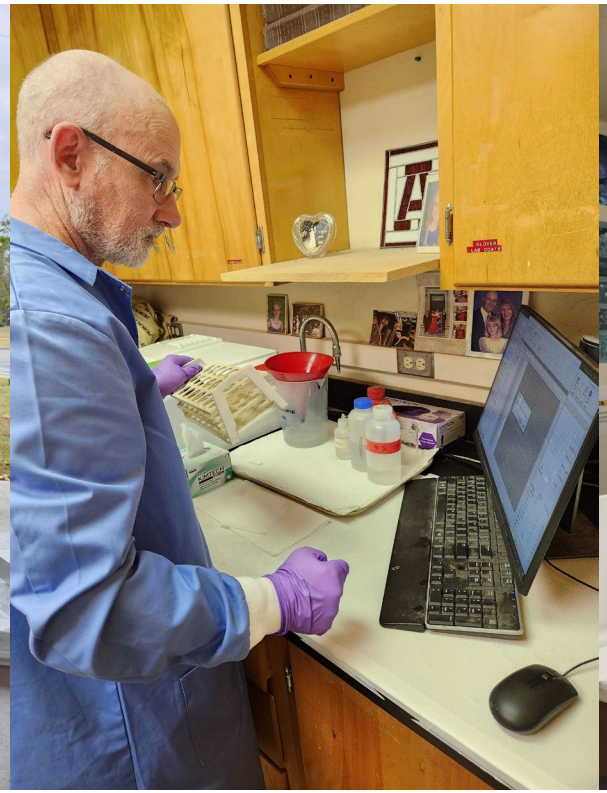

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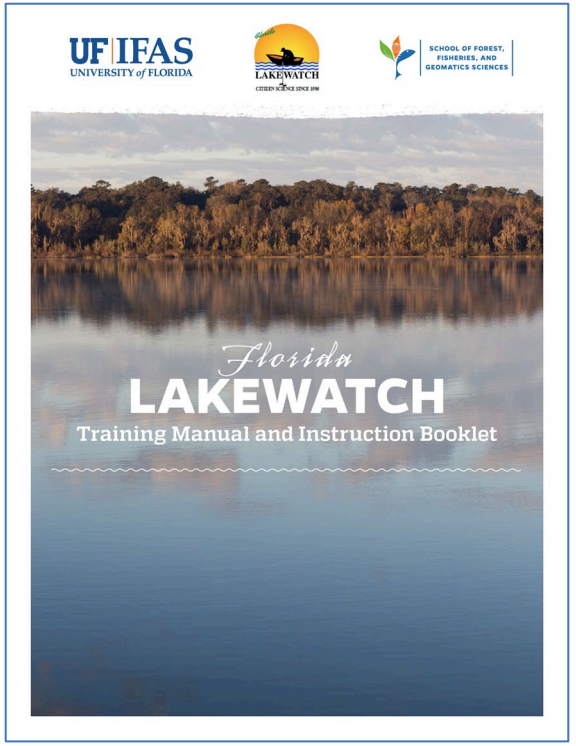
Read the latest newsletter here!



LAKEWATCH Mission Statement

As limnologists, Florida LAKEWATCH's staff and students work to understand the ecology, chemistry, and physical properties of inland waterbodies and coastal ecosystems. Our primary goal is to work with citizen and community scientists to monitor the quality of Floridian aquatic ecosystems. This collaboration generates research-quality data that is useful for stakeholders and management programs. Additionally, LAKEWATCH conducts novel limnological research, provides meaningful public extension and education, and helps train the next generation of limnologists through undergraduate and graduate teaching.

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FLORIDA FISH AND WILDLIFE CONSERVATION COMMISSION

Florida Department of Environmental Protection

State Statue 1004.49

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