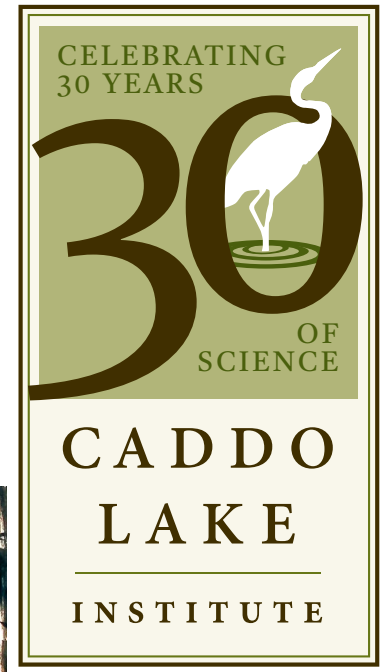


# CADDO LAKE IMPACT 2022

Annual Summary | FISCAL YEAR 2022

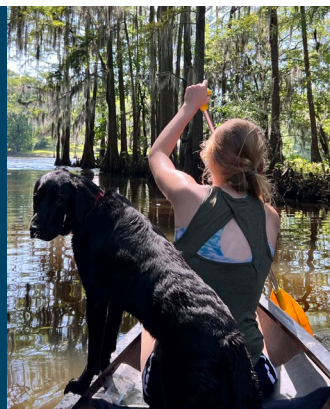


CADDO LAKE INSTITUTE

Focused on  
Science, Stewardship  
& Engagement

## OUR MISSION:

Caddo Lake Institute (CLI) is a non-profit scientific and educational organization protecting the ecological, cultural, and economic integrity of Caddo Lake.



Caddo Lake Institute  
P.O. Box 230 | Karnack TX 75661

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# SCIENCE: Water Quality

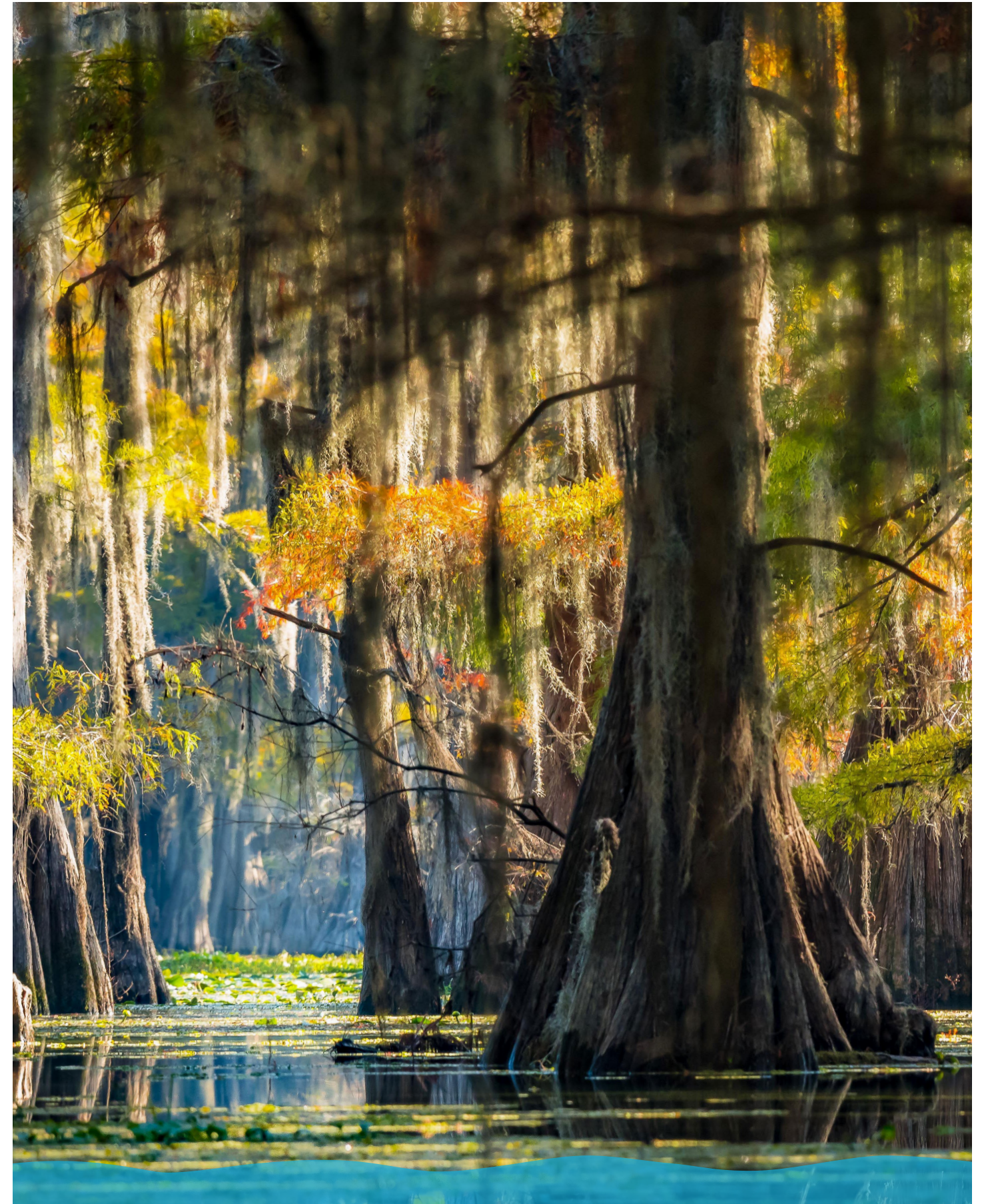
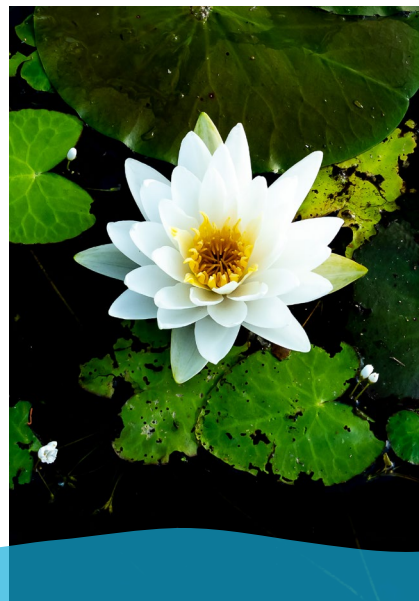
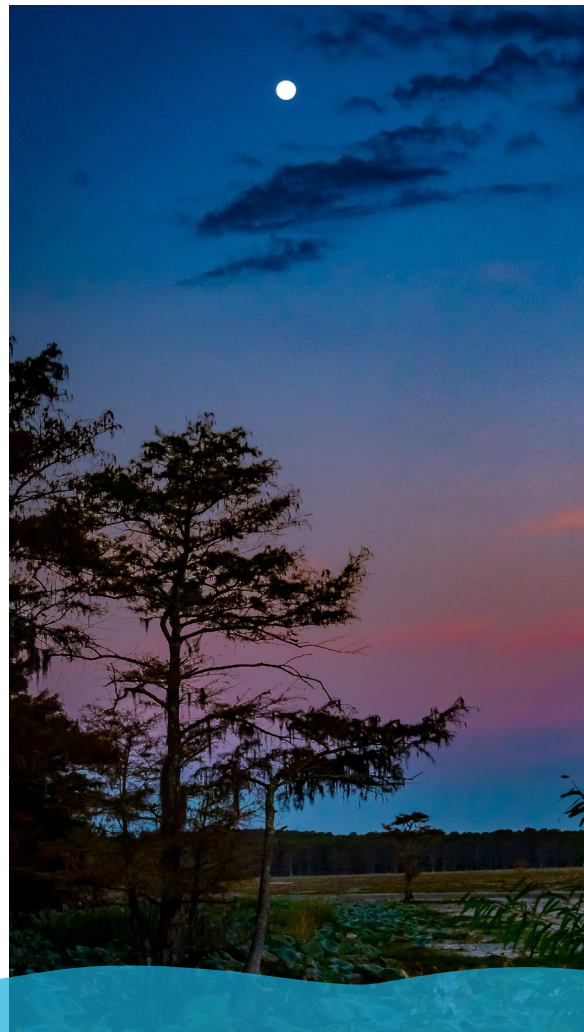
**24 YEARS OF DATA COLLECTED:** Scientist, Dr. Darville's water sampling shows that the overall Water Quality of Caddo Lake continues to improve. Despite concerns from years ago, there are no signs of eutrophication, sometimes called "lake death". Caddo Lake is classified in the oligotrophic category, not eutrophying, based on low concentrations of nitrite, nitrate, phosphorus, and chlorophyll.

**120 FOREST PLOTS RESEARCHED ALONG 2 TRIBUTARIES:** Field Work was completed for a forest health research project begun in 2011. The current study to evaluate and adaptively manage the environmental flow regime was started in 2011 with the measurement and analysis of baseline data at three long-term riparian research sites on Big Cypress Bayou (BCB). In 2019, the study was expanded to include three replicate sites on Little Cypress Bayou (LCB). Therefore, experimental design now includes LCB (unregulated flows) as a control to assess the efficacy of regulated environmental flows on BCB, in sustaining downstream riparian forests and Caddo Lake. Analysis of the data and publication for spreading this knowledge to other basins will take place in 2023.

**DETAILED ANALYSIS OF METALS** at the former Longhorn Army Ammunition Plant, now the Caddo Lake National Wildlife Refuge, was provided to the community by Caddo Lake Institute's 3rd party Technical Advisor.



**8,600 PADDLEFISH (Polyodon Spathula)** were released into Caddo Lake during the 4th year of our 10-year restocking plan. Caddo was home to the prehistoric paddlefish until the 1970s when they were declared State Threatened. After years of experimental and official releases, there are now over 20,000 paddlefish back in Caddo. Plans are being made to monitor spawning grounds in upcoming years with the goal of a self-sustaining population.





# STEWARDSHIP:



**SEVEN (7) WILDLIFE HABITAT ENHANCEMENT PROJECTS** involving 884 acres were completed. Six (6) projects involved the control of the invasive exotic Chinese tallow tree, and one (1) project involved the enhancement of occupied red-cockaded woodpecker habitat. This concludes a multi-year, \$135,000 project with USFWS to restore habitat and remove invasive species.



**220 RARE *SOPHORA AFFINIS* TREES** trees planted at 2 public parks in Oil City and Mooringsport, on the shores of Caddo Lake. These trees were found at only 1 location in the entire state of Louisiana, and we have now bolstered their population at that 1 site and created a new, back up population at a second site.



**\$5,000 SUB-GRANTED** to the Caddo Biocontrol Alliance, who raise and deploy weevils to manage the aquatic invasive plant, *Salvinia*.



# ENGAGEMENT:

**565,965 LISTENERS** for Conserving Earth radio show. Conserving Earth, launched in September of 2021, is an hour long show on Red River Radio that covers relevant, regional conservation information. It is the #1 downloaded podcast on Red River Radio. We are spreading high quality conservation information widely throughout the region.

**PRESS COVERAGE:** *Texas Monthly*, *sb*, *Texas Highways*, and *318 Forum*. Austin Film Festival, put on by Texas Water Foundation, featured a short film on Caddo Lake Institute's work at: <https://youtu.be/mvc-UUs9U-k>

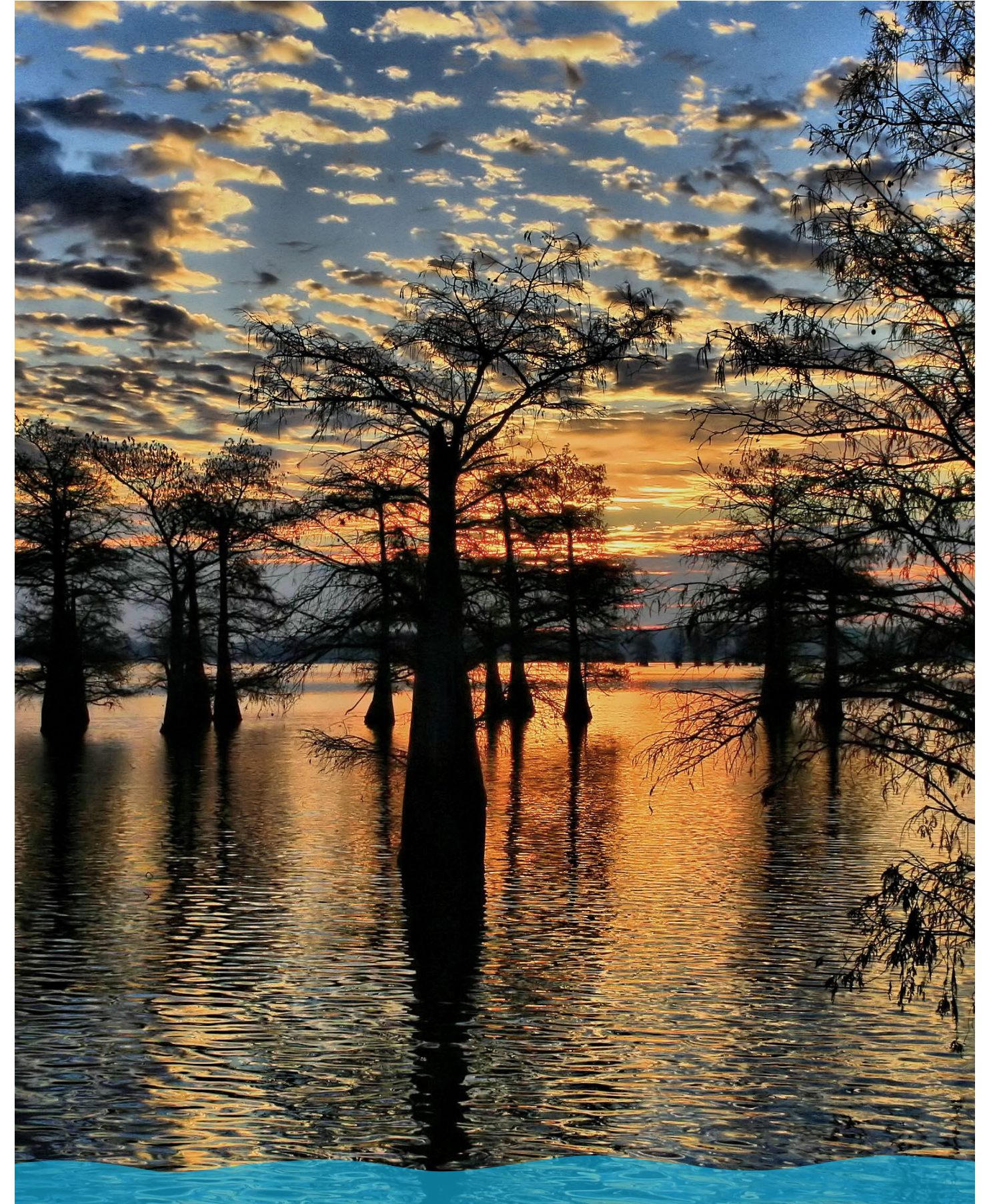
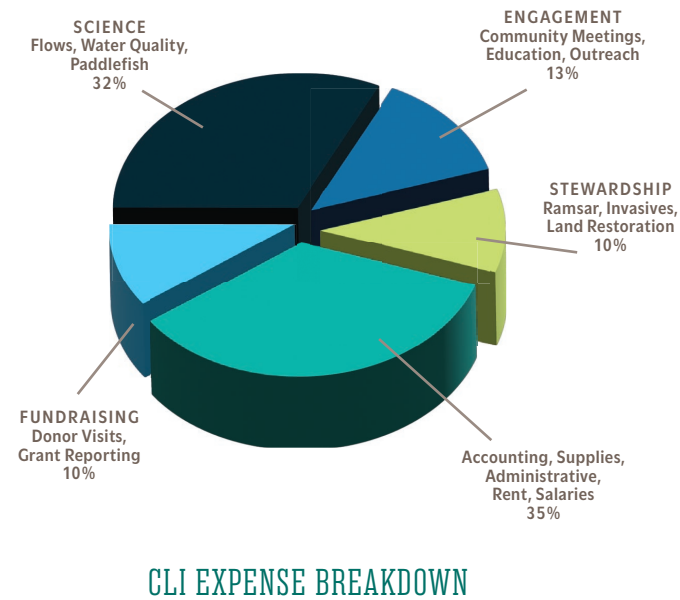
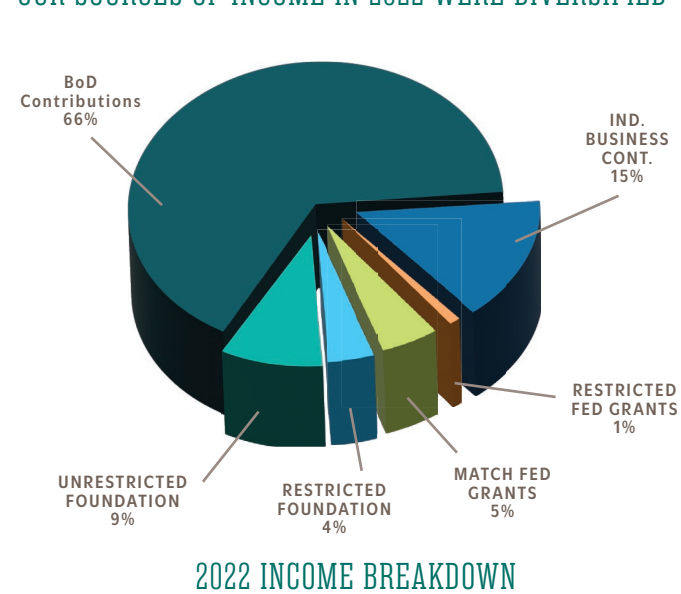
**PUBLIC EVENTS:** Informational booths at: Christmas on Caddo Festival; Caddo Lake Floatilla; and Marshall Stagecoach days.

**THE PADDLEFISH** is now the official fish of Marion County and of the City of Jefferson after proclamations by elected officials.

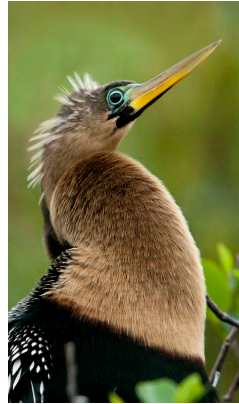
**HOW WAS FUNDING USED?** Most of our program dollars were again spent on Science and Environmental Flows, as it provides multiple benefits across the diverse ecosystem: supporting wetlands; oxbow connectivity; forest health; scours sediment from crucial spawning ground; returns more native fish to the system; and improves water quality.



## OUR SOURCES OF INCOME IN 2022 WERE DIVERSIFIED



# LOOKING AHEAD TO 2023



- Publishing results of innovative forest monitoring data to spread best practices to other basins.
- Louisiana's first official paddle trail on Caddo Lake will be established.
- Adding acreage to the Federal Wildlife Refuge for conservation and public enjoyment
- Working with local universities to provide a list of needed science projects.
- New water studies on herbicides
- Engagement with national amphibian specialists

## DO YOU WANT TO BE PART OF OUR ONGOING SUCCESS?

Make an impact locally and leave our wild places better than we found them by donating. Individuals, corporations, and foundations can contribute cash, stocks, or even include Caddo Lake Institute in your estate planning.

## TO MAKE DONATIONS:

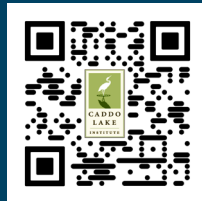
Go to [www.caddolakeinstitute.org/help](http://www.caddolakeinstitute.org/help) or mail your check to Caddo Lake Institute to: 400 Edwards Street, Shreveport LA 71101, or call us at 318-541-6923 to discuss other giving opportunities.

## EMAIL US AT:

[info@CaddoLakeInstitute.org](mailto:info@CaddoLakeInstitute.org)

## TO VIEW VIDEOS

illustrating what we do, please scan these QR codes with your phone's camera. Share these with others to support our efforts at CLI!



MORE INFORMATION AT:  
[CADDOLAKEINSTITUTE.ORG](http://CADDOLAKEINSTITUTE.ORG)  
[CADDOLAKEDATA.US](http://CADDOLAKEDATA.US)

## CADDO LAKE INSTITUTE

is a scientific and educational nonprofit, protecting the unique treasure that is Caddo Lake.

The Caddo Lake Institute (CLI) is a tax exempt organization under Section 501 (c)(3) of the Internal Revenue Code. Contributions are tax deductible to the full extent allowed by law. CLI has a platinum rating from Candid/Guidestar.

Platinum  
Transparency  
2022  
**Candid.**



photo credit: Jason Whalen