

ARKANSAS FISHING CLUB - DE-EUTROPHICATION OF A THREE LAKE SYSTEM



AS SEEN IN POND BOSS MAGAZINE: MARCH/APRIL 2025 EDITION

CLIENT OBJECTIVES

1. Restore Damaged Fishery Environment
2. Process Accumulated Debris
3. Restore Dissolved Oxygen

SYSTEM DETAILS

- ▶ Size: 750 Acre system
- ▶ Three connected lakes
- ▶ Location: Arkansas
- ▶ Treatment Period: June-Oct
- ▶ Client Type: Private Fishery
- ▶ Program: TryMarine Custom Fishery Program

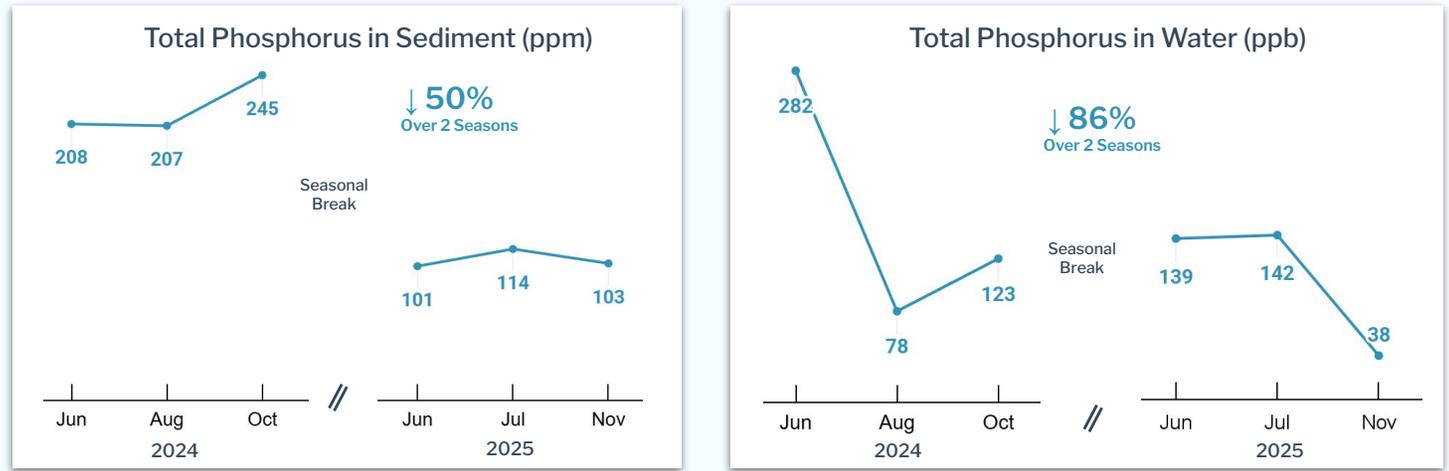
TRYMARINE IMPACT

- ▶ By the end of treatment Season 2, phosphorus in the sediment and water was sustainably reduced.
- ▶ In 2025, the partially restored system supported strong fishery performance, documented by increased relative weights compared to historical data
- ▶ Members have experienced enhanced results, while praising an observed recovery in the cypress tree habitat.

BACKGROUND

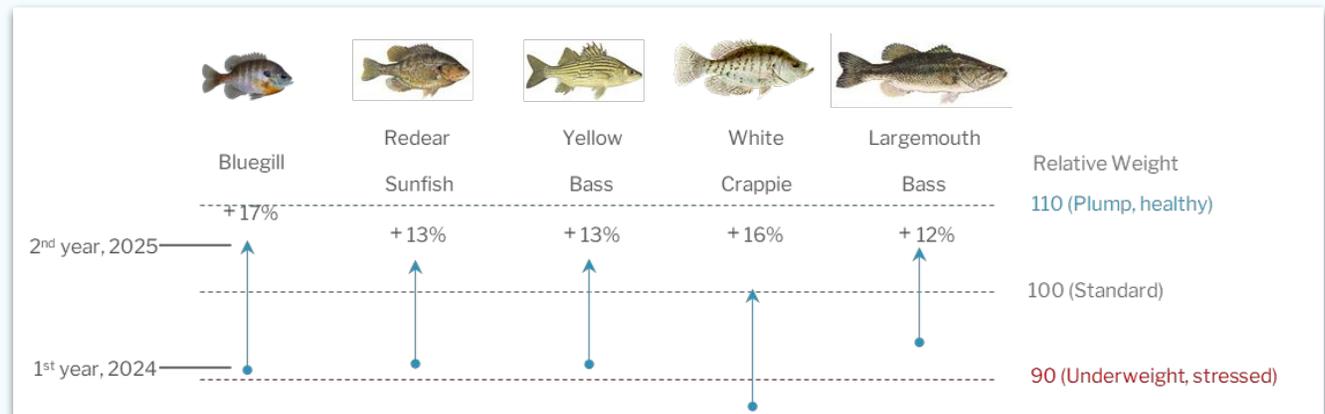
▶ A prominent, private fishing club, manages a three-lake 750 acre system, recently prone to intense episodic water quality deterioration and severe dissolved oxygen and pH swings. The high-stress fluctuations are believed to hamper fish productivity and visibly damage its cypress tree ecosystem. TryMarine was implemented in 2024 as a key restoration tool to re-establish a stable and high-quality fishery. TryMarine devised a strategy with heavier upstream dosage, to reduce application efforts in 3 distinct connected lakes.

KEY METRICS AND RESULTS



Phosphorus in the water and sediment were reduced significantly in 2 years

IMPROVED FISH HABITAT LEADS TO BIGGER FISH



ARKANSAS FISHING CLUB: DE-EUTROPHICATION OF A THREE LAKE SYSTEM - LAKE 1



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CLIENT OBJECTIVES

1. Enhance Fishery Production
2. Process Accumulated Muck
3. Restore Oxygen Levels

IMPROVED AESTHETICS



TRYMARINE IMPACT

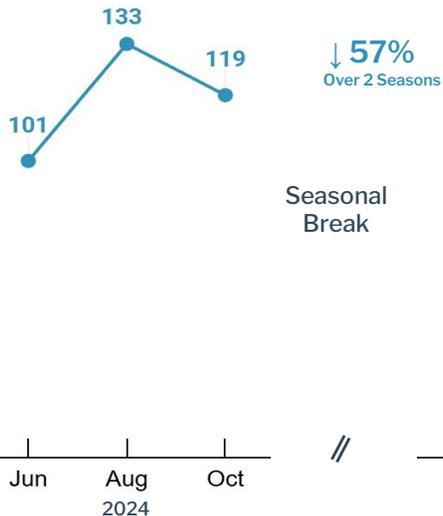
- ▶ Lake 1, at the top of the chain, was treated most heavily - with the expectation that improved water would flow downstream - the results were quantitatively and qualitatively robust.
- ▶ Sediment phosphorus fluctuated initially as successive sediment layers were processed before declining during the second season: **↓57%**
- ▶ Water phosphorus declined significantly in both annual treatment seasons: **↓92%**

LAKE DETAILS

- ▶ Size: 100 acres
- ▶ Location: Arkansas
- ▶ Treatment Period: June-Aug
- ▶ Client Type: Private Fishery
- ▶ Program: TryMarine Custom Fishery Program

KEY METRICS

Total Phosphorus in Sediment (ppm)



Total Phosphorus in Water (ppb)



ARKANSAS FISHING CLUB: DE-EUTROPHICATION OF A THREE LAKE SYSTEM - LAKE 2



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CLIENT OBJECTIVES

1. Enhance Fishery Production
2. Process Bottom Debris
3. Restore Bottom Oxygen Levels

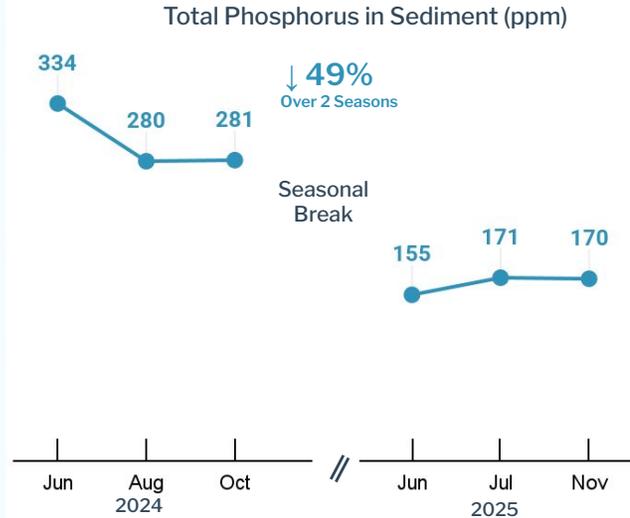
LAKE DETAILS

- ▶ Size: 419 acres
- ▶ Three connected lakes
- ▶ Location: Arkansas
- ▶ Treatment Period: Jun-Aug
- ▶ Client Type: Private Fishery
- ▶ Program: TryMarine Custom Fishery Program

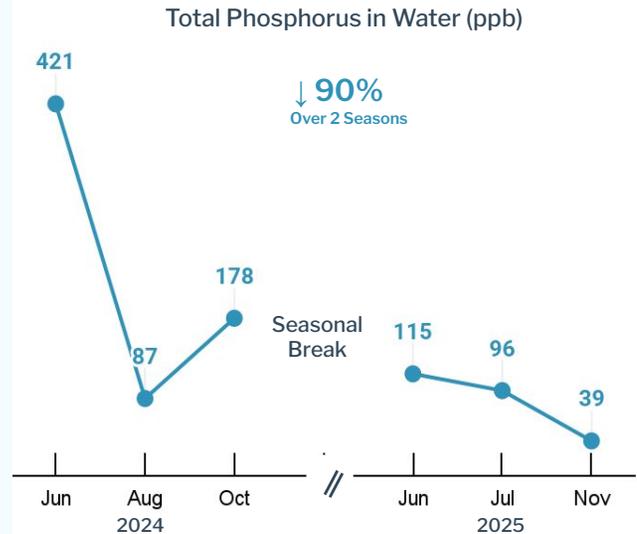
TRYMARINE IMPACT

- ▶ Lake 2 received improved water from lake 1, and a lighter dosage of TryMarine – the combination strategy produced similarly positive results.
- ▶ Sediment phosphorus fluctuated with initial treatments before declining during the second season.:
↓**49%**
- ▶ Water TP was significantly reduced during the first and second treatment seasons:
↓**90%**

KEY METRICS AND RESULTS



Significantly less phosphorus year 2 during the same season



Steep decline in phosphorus was continued through year 2

VISUAL IMPROVEMENT



July 2024



July 2025

ARKANSAS FISHING CLUB: DE-EUTROPHICATION OF A THREE LAKE SYSTEM - LAKE 3



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CLIENT OBJECTIVES

1. Enhance Fishery Production
2. Process Bottom Debris
3. Restore Bottom Oxygen Levels

IMPROVED AESTHETICS



TRYMARINE IMPACT

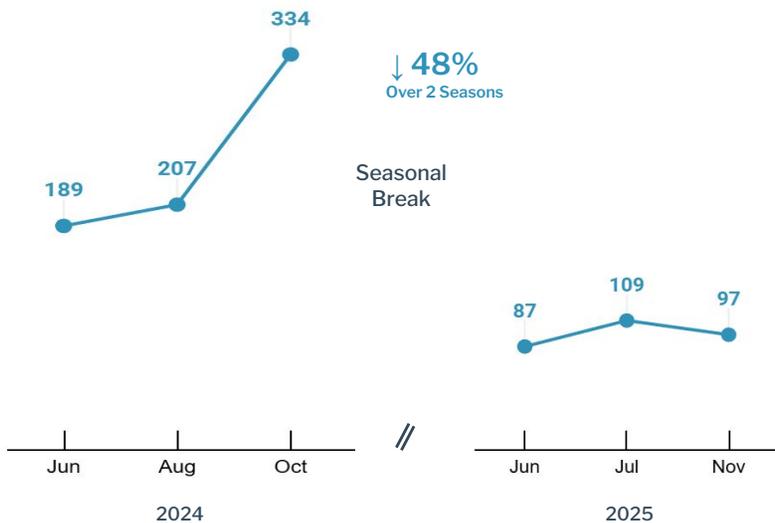
- ▶ Lake 3, the most actively used portion in the chain, had a very light dose, in Year 1, followed by heavier dosing in Year 2, as client became comfortable with results.
- ▶ Phosphorus in sediment fluctuated with initial treatments before declining significantly during the Season: **↓48%**
- ▶ Water phosphorus fluctuated during the first and second treatment seasons, but ended Year 2 significantly lower than it started **↓41%**

KEY DETAILS

- ▶ Size: 222 acres
- ▶ Location: Arkansas
- ▶ Treatment Period: Jun-Aug
- ▶ Client Type: Private Fishery
- ▶ Program: TryMarine Custom Fishery Program

KEY METRICS

Total Phosphorus in Sediment (ppm)



Total Phosphorus in Water (ppb)

