

The Florida Senate
COMMITTEE MEETING EXPANDED AGENDA

ENVIRONMENT AND NATURAL RESOURCES

Senator Rodriguez, Chair
Senator Mayfield, Vice Chair

MEETING DATE: Wednesday, October 15, 2025

TIME: 1:30—3:00 p.m.

PLACE: *Toni Jennings Committee Room, 110 Senate Building*

MEMBERS: Senator Rodriguez, Chair; Senator Mayfield, Vice Chair; Senators Arrington, Avila, DiCeglie, Harrell, Polsky, and Smith

TAB	BILL NO. and INTRODUCER	BILL DESCRIPTION and SENATE COMMITTEE ACTIONS	COMMITTEE ACTION
<hr/>			
	Presentations on the Health of Lake Okeechobee:		
1	Fish and Wildlife Conservation Commission presentation on the Lake Okeechobee Land Management Plan including exotic plant management.		Presented
2	South Florida Water Management District presentation on lake ecology and nutrient pollution.		Presented
3	U.S. Army Corps of Engineers presentation on Lake Okeechobee operations.		Presented

Other Related Meeting Documents

Lake Okeechobee



Senate Committee on Environment and Natural Resources

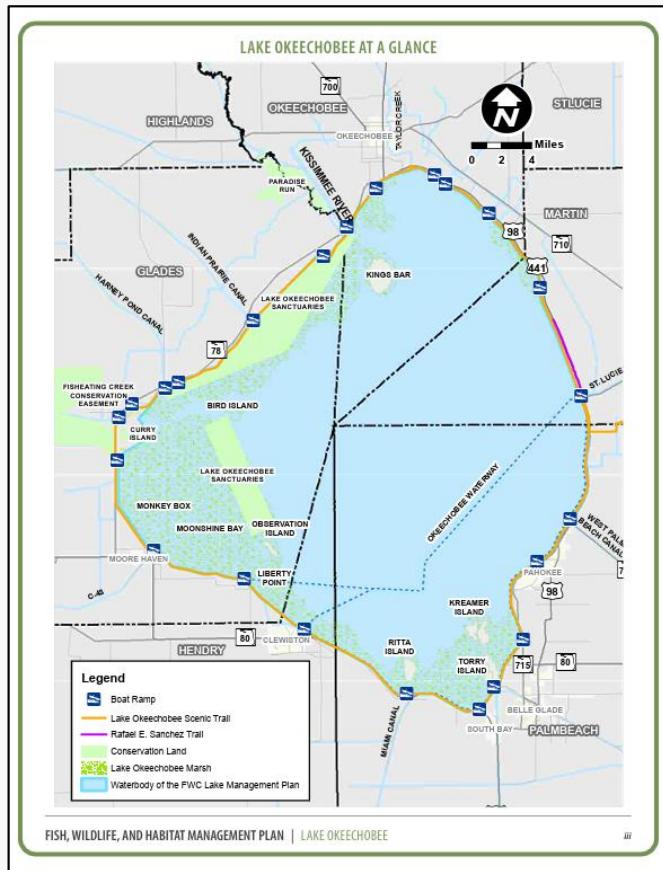
October 15, 2025

George Warthen, Chief Conservation Officer

Florida Fish and Wildlife Conservation Commission



Fish and Wildlife Resources



Fisheries



- 550 documented trophy Florida bass
- Ranked 25th in Bassmaster Magazine's 2025 "100 Best Bass Lakes in America"
- Top black crappie fishing destination



Waterfowl

- Renowned waterfowl hunting lake
 - 13 species
 - Winters 100,000+ ducks



- Healthy marshes and open water contribute to duck abundance



Alligators

- Four Alligator Management Units
 - 607 permits
- Chosen by 14% of hunters
- 33.9% of eggs collected for the commercial industry



Water Management

- System-wide approach
- Minimize undesirable discharges
- Sends more water south
- Operations to recover ecology

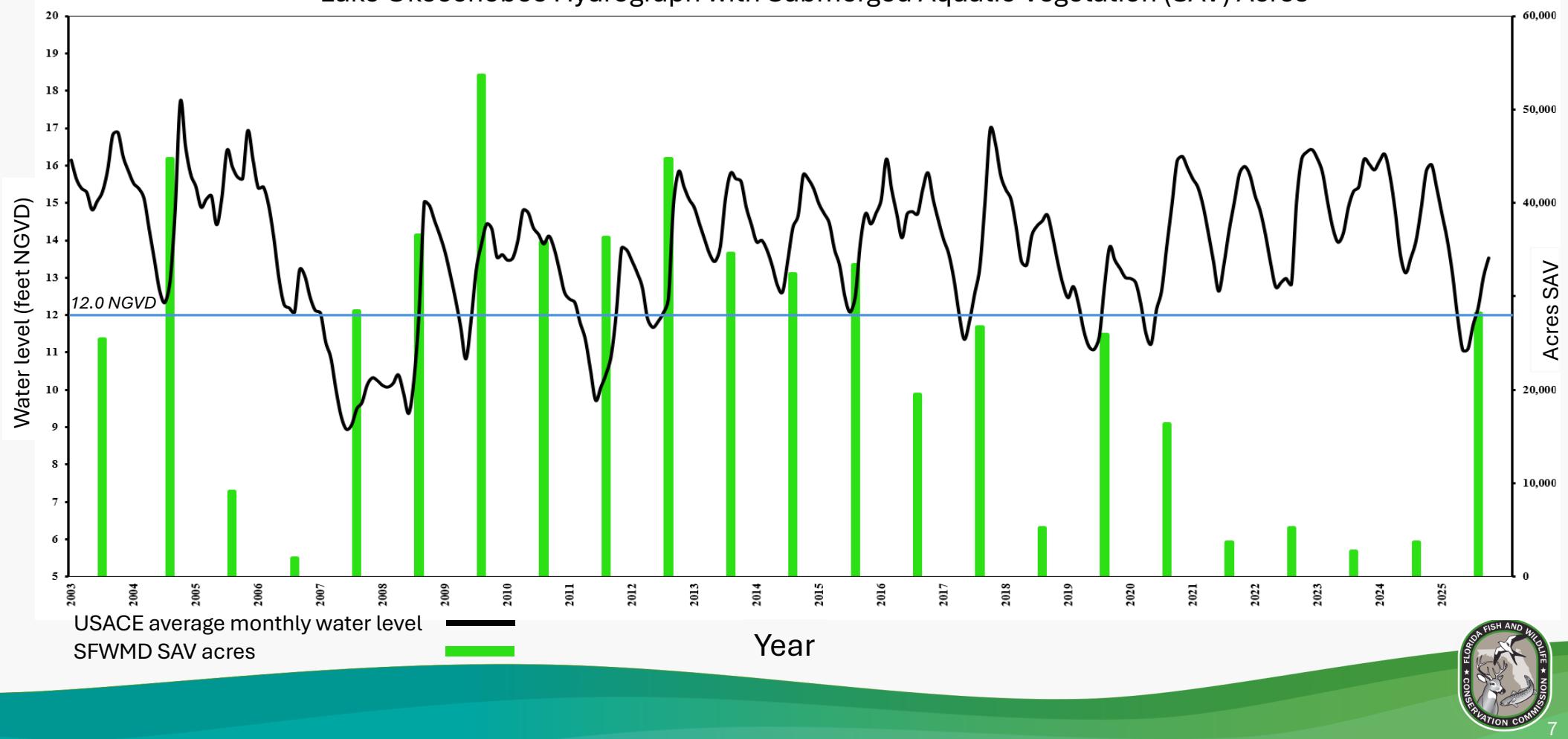


Photo courtesy USACE



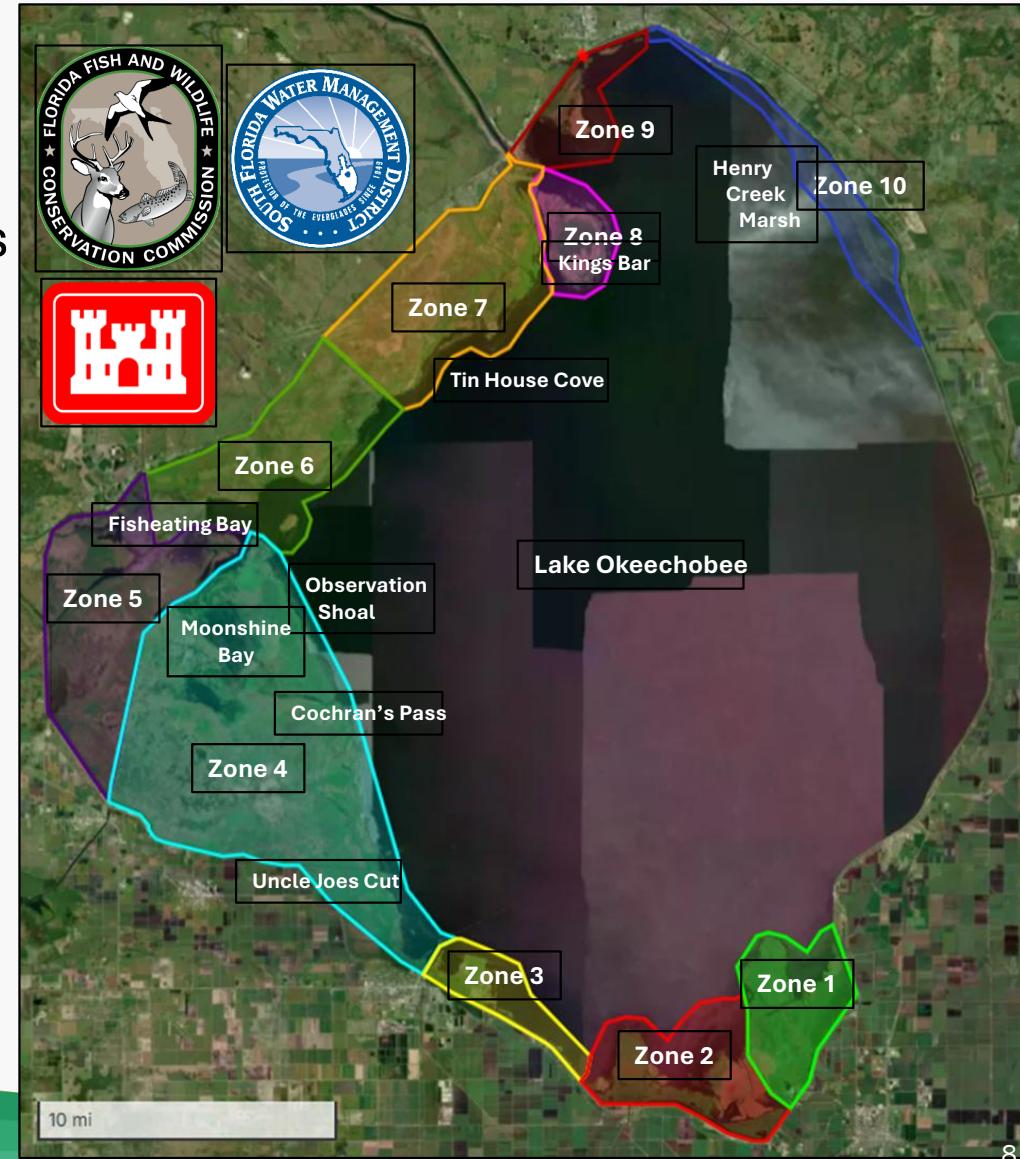
Habitat Conditions: 2003-2025

Lake Okeechobee Hydrograph with Submerged Aquatic Vegetation (SAV) Acres



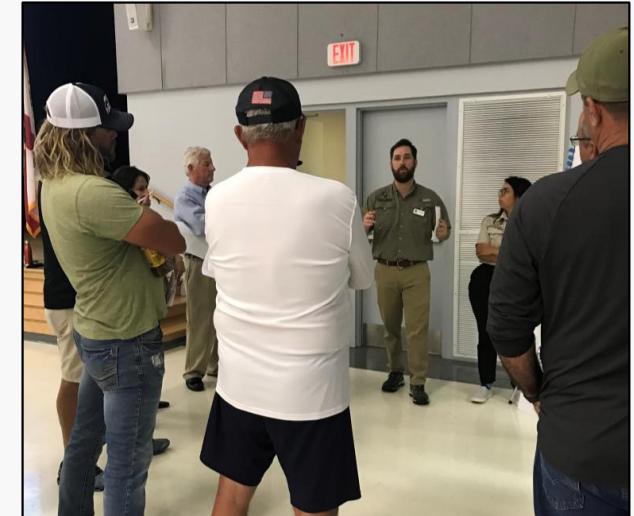
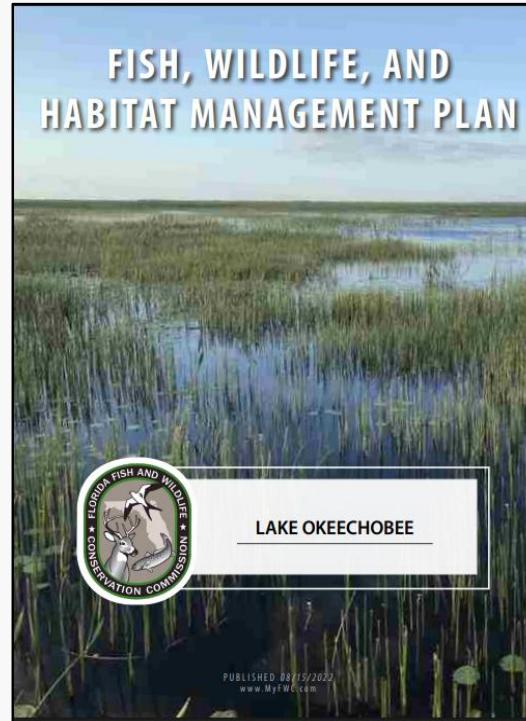
Interagency Coordination

- Zones 1 – 4: US Army Corps of Engineers
- Zones 4 – 10: FWC
- Interagency Task Force – bi-monthly
- Interagency Lake Flight – monthly
- FWC – USACE coordination calls
 - Weekly to daily coordination between field biologists



Strategic Approach to Management

- Science based
- Stakeholder driven
- Collaborative
- Guides future management



Restoring, Enhancing, and Managing Habitats



- Restore natural hydrology
- Enhance desirable vegetation
- Use of prescribed fire
- Reduce sedimentation



Management Toolbox



Mechanical



Physical



Biological



Chemical

Integrated Pest Management

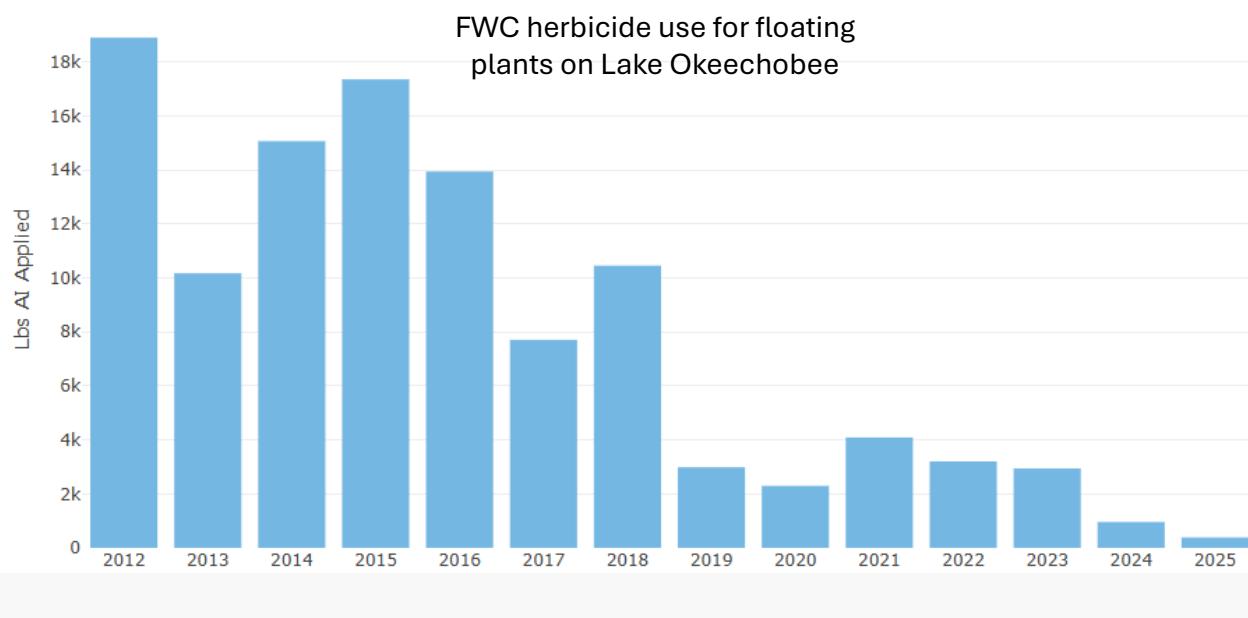
Management tools are selected based on management goals, lake conditions, and funding available.

Vegetation Management Projects

- Cooperative effort
- Torpedo grass provides less suitable habitat
- 6,000 acres diverse native marsh restored



Floating Plant Management



Prescribed Fire



- 25% of the lake's surface area is vegetated freshwater marsh
- Adapted to frequent fire
- Optimal conditions during Lake Okeechobee system operating manual recovery operations
 - Over 21,000 acres burned
- Improved habitat

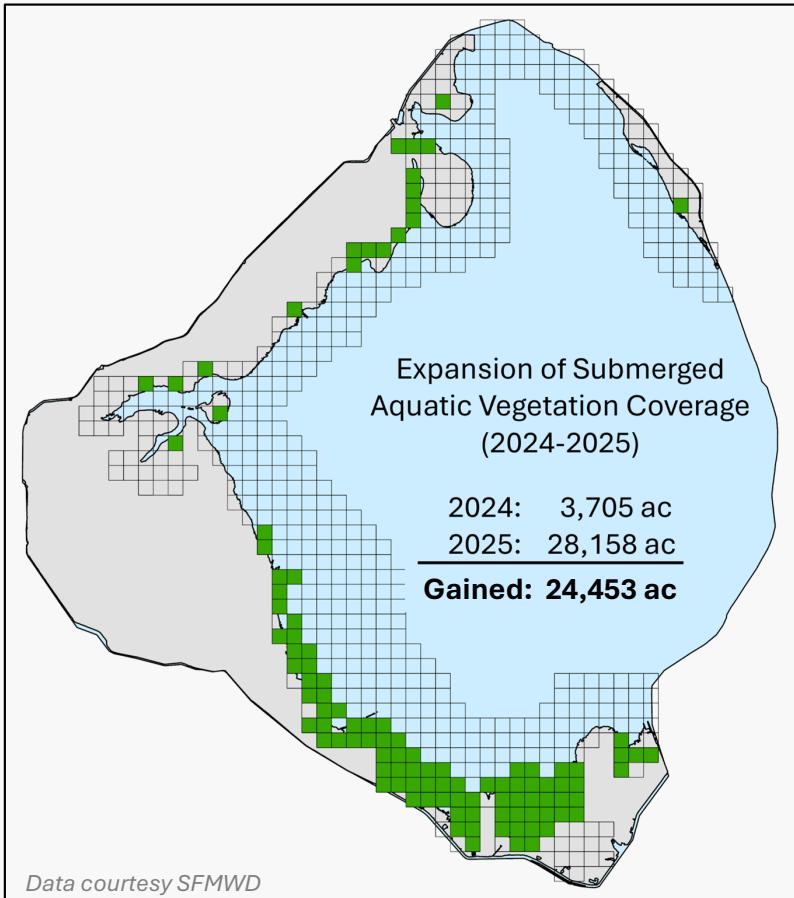


Island Enhancement and Replanting Projects

- Spoil Island Enhancement
 - 19,000 trees
 - Over 7,000 wildflowers, grasses and emergent native plants (80+ species)
 - 182 orchids
 - Provides habitat for over 70 bird species, mammals, and reptiles
- Replanting Projects
 - 40,000 eelgrass plants, bulrush and other grasses



Habitat Recovery





Thank you

Legislative Affairs Director:

Jessica Melkun

Jessica.Melkun@MyFWC.com

850-487-3795



10-15-25

The Florida Senate

APPEARANCE RECORD

Meeting Date

ENR

Committee

Name George Warthen

Address 620 S. Meridian St.
Street

Tallahassee FL
City State

32399
Zip

Deliver both copies of this form to
Senate professional staff conducting the meeting

FWC presentation

Bill Number or Topic

Amendment Barcode (if applicable)

Phone 850-487-3795

Email george.warthen@myfwc.com

Speaking: For Against Information

OR

Waive Speaking: In Support Against

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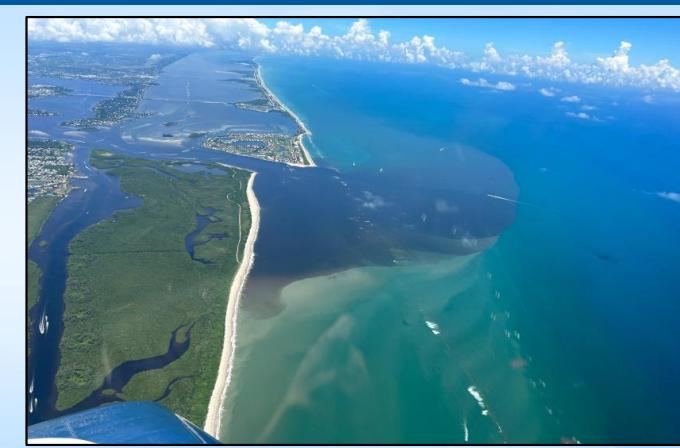
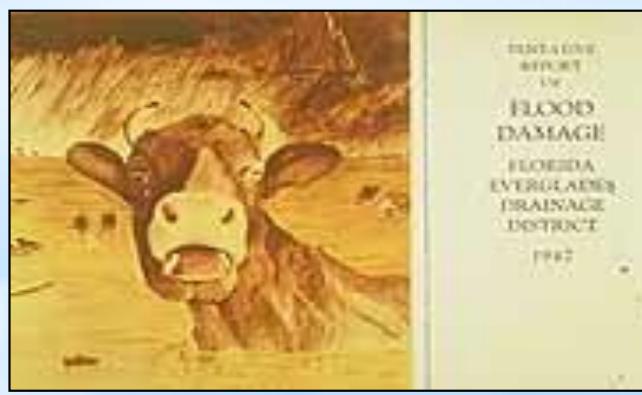
S-001 (08/10/2021)

LAKE OKEECHOBEE



PRESENTED BY:
Drew Bartlett, Executive Director
South Florida Water Management District
Senate Environment and Natural Resources Committee

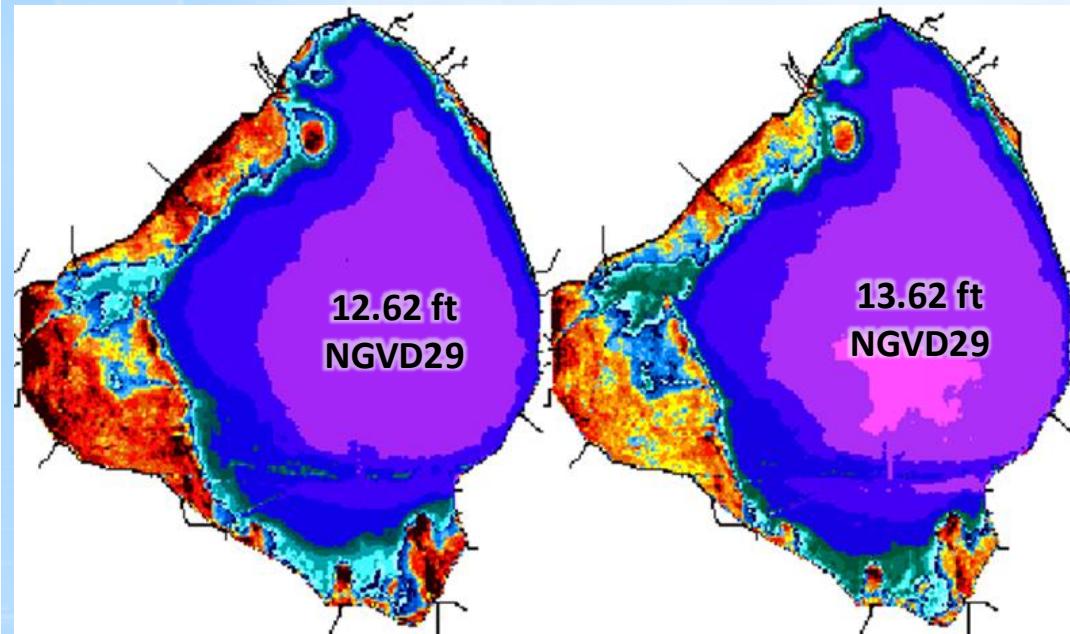
Lake Okeechobee History



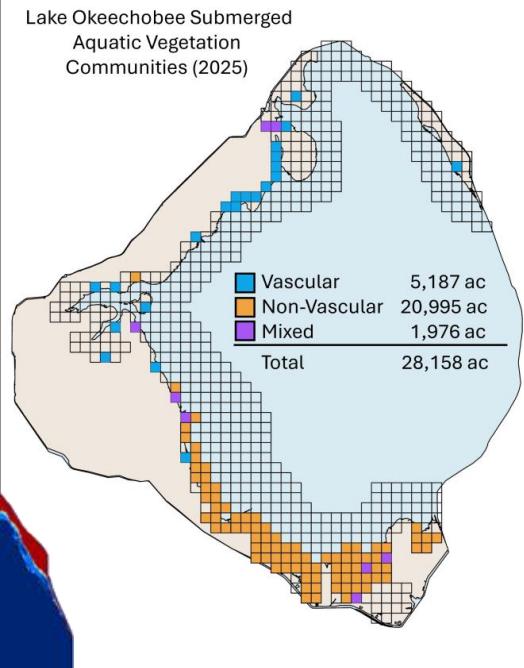
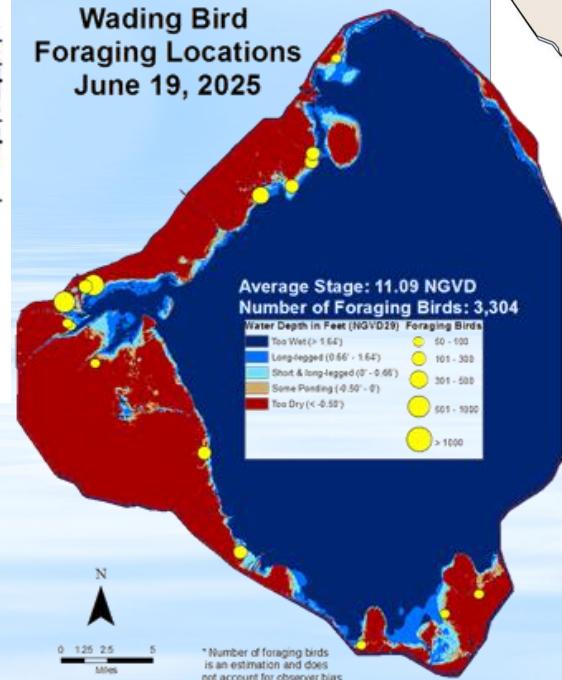
How We Measure Lake Okeechobee's Ecology

1 Month Ago:
09/06/2025

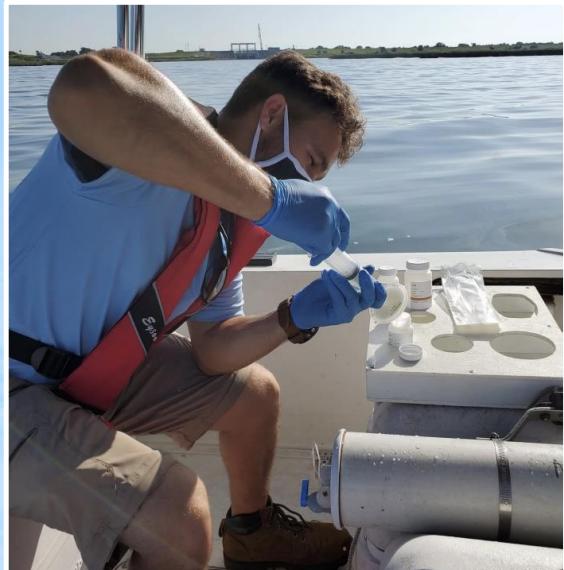
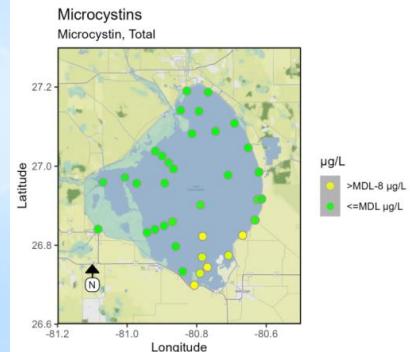
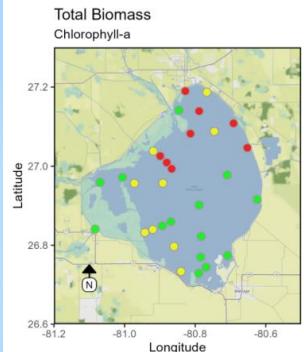
Current:
10/06/2025



Wading Bird
Foraging Locations
June 19, 2025



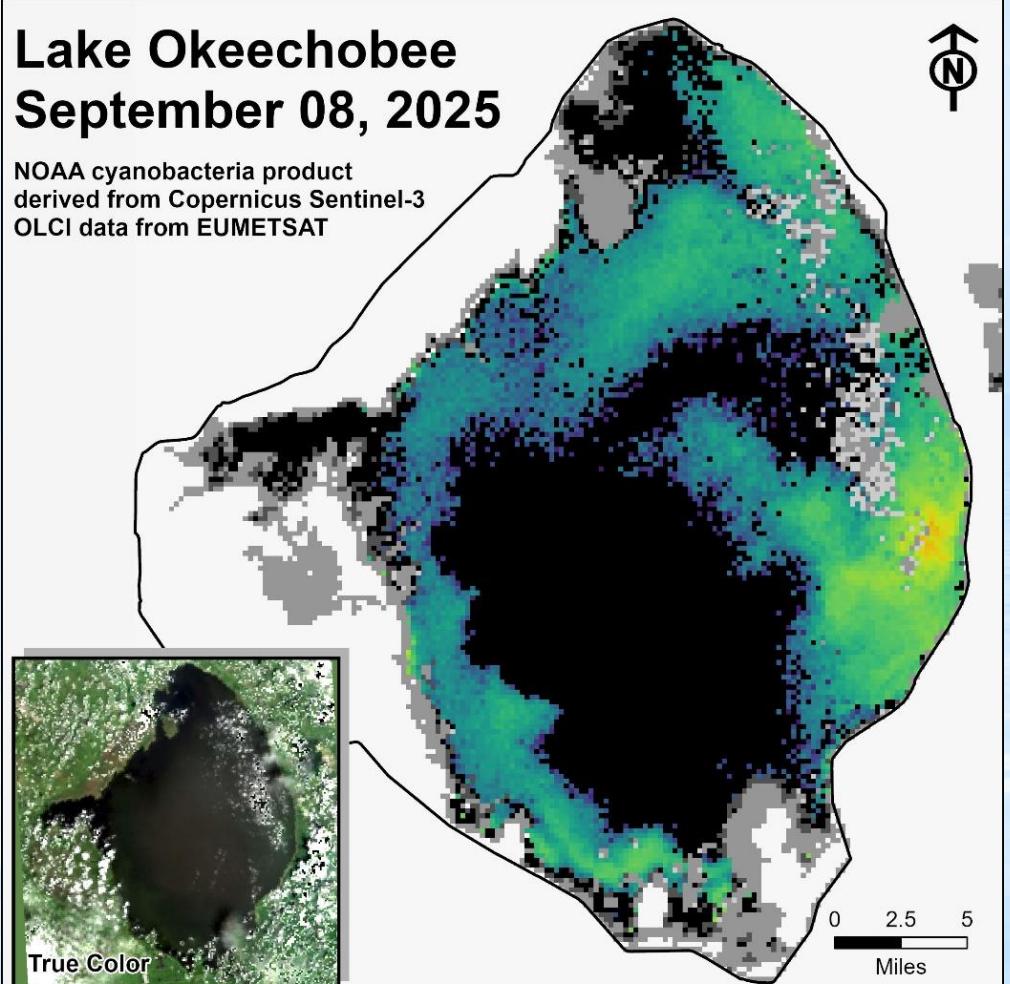
Status of Blue-Green Algae



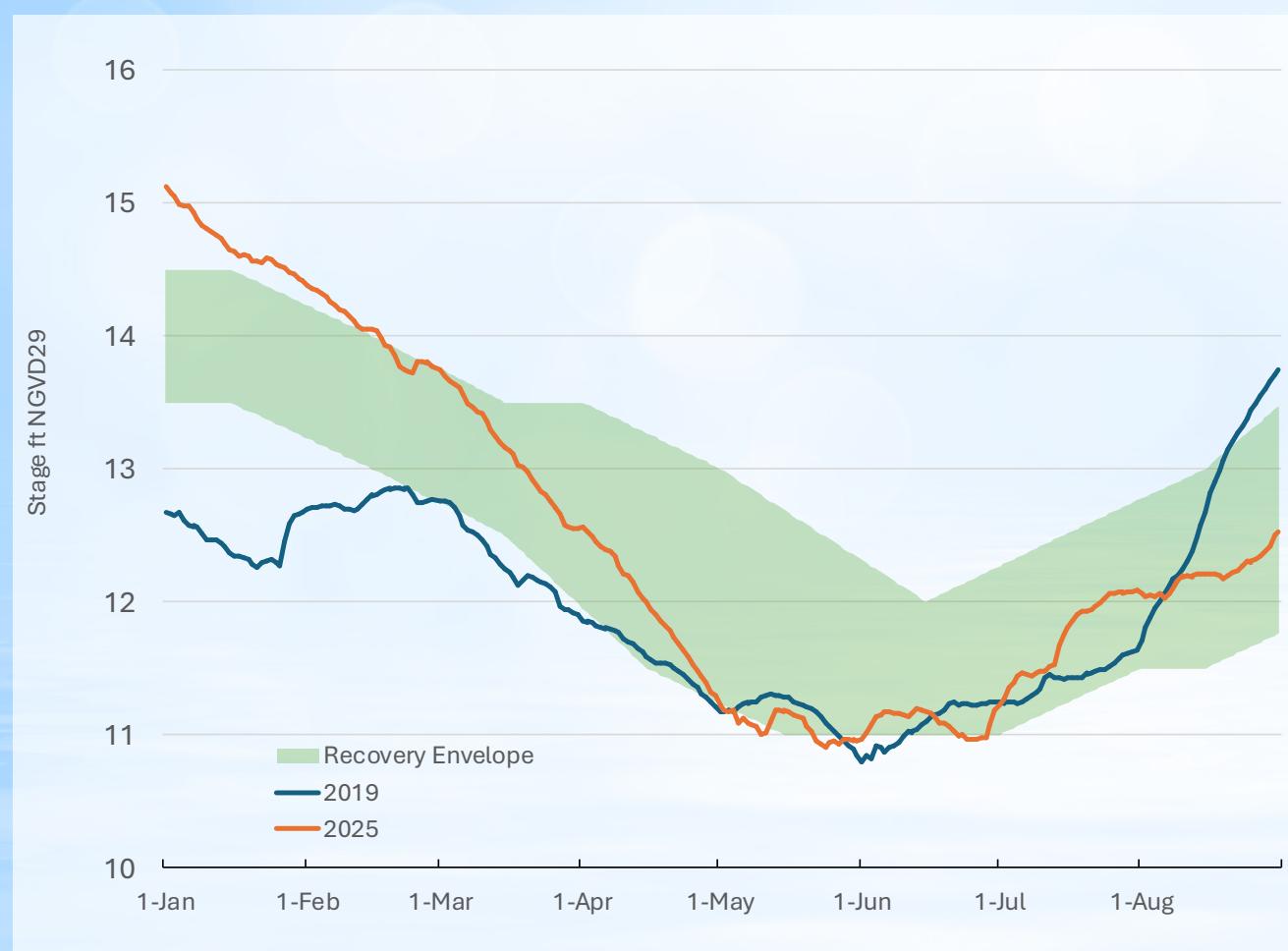
Water Quality Monitoring

Lake Okeechobee September 08, 2025

NOAA cyanobacteria product
derived from Copernicus Sentinel-3
OLCI data from EUMETSAT



Status of Submerged Aquatic Vegetation



- 28,000 acres in 2025
- 700% increase from 2024
- Similar to 2019 water levels



Eelgrass in June 2025



New Landmark Agreement

“The Department of the Army and the State of Florida have committed to...expedited and timely review of project agreements, project deliverables, and permitting actions to support Everglades restoration and the quality of water within Lake Okeechobee.”

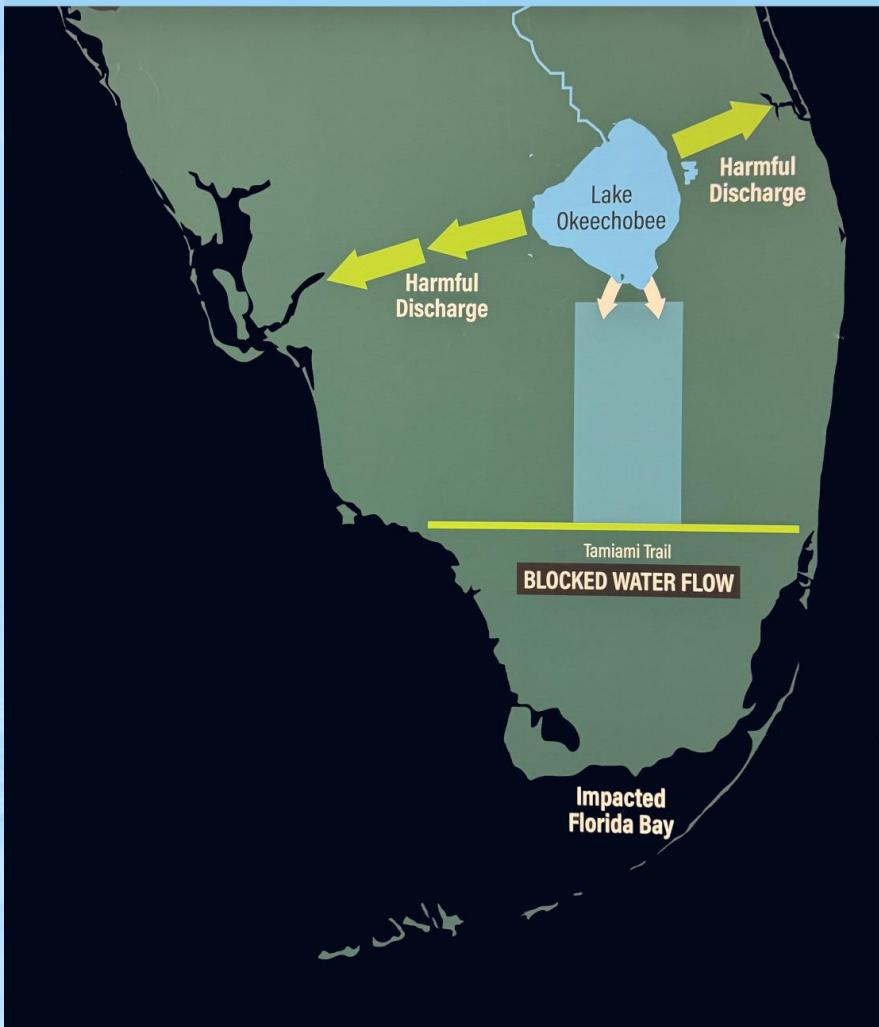
Prioritize permits that support “the quality of waters within Lake Okeechobee, including project components and elements of the Northern Everglades and Estuaries Protection Plan, the Lake Okeechobee Watershed Plan, and the Lower Kissimmee Basin Stormwater Treatment Area Project.”



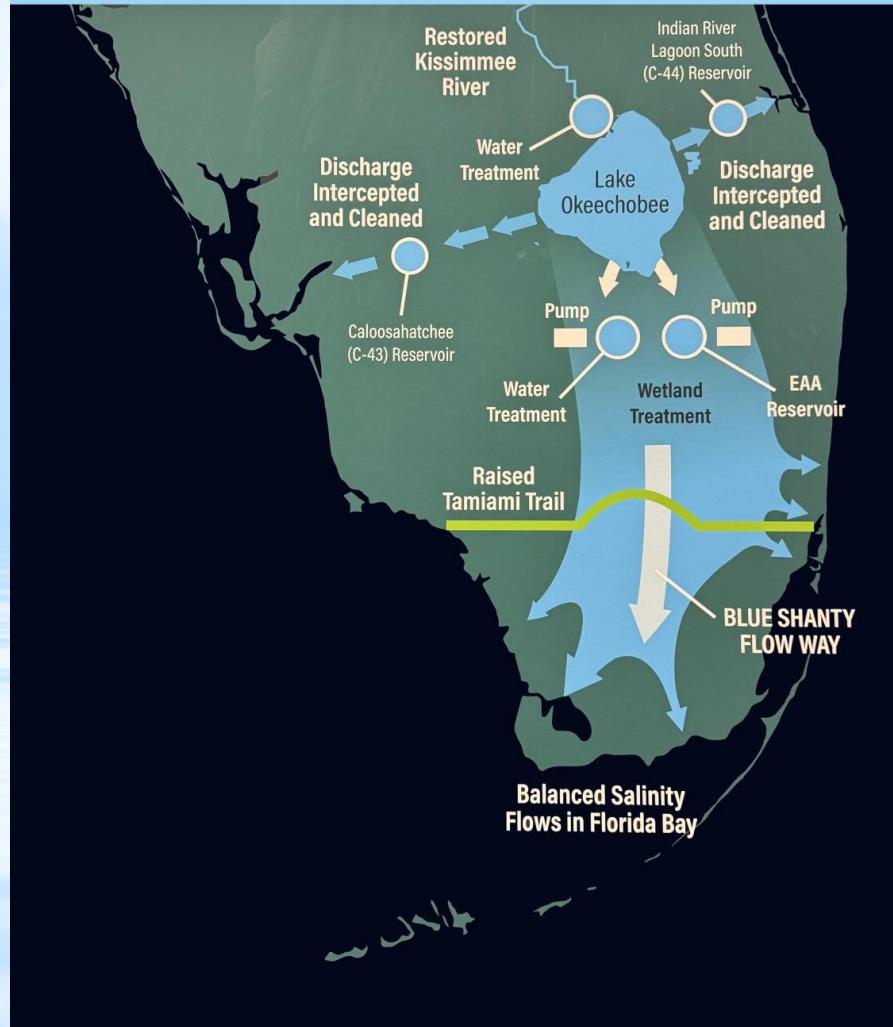
Signing of the Landmark Agreement on July 18, 2025



PRE-2019



NOW



Restoring the Kissimmee River

before →



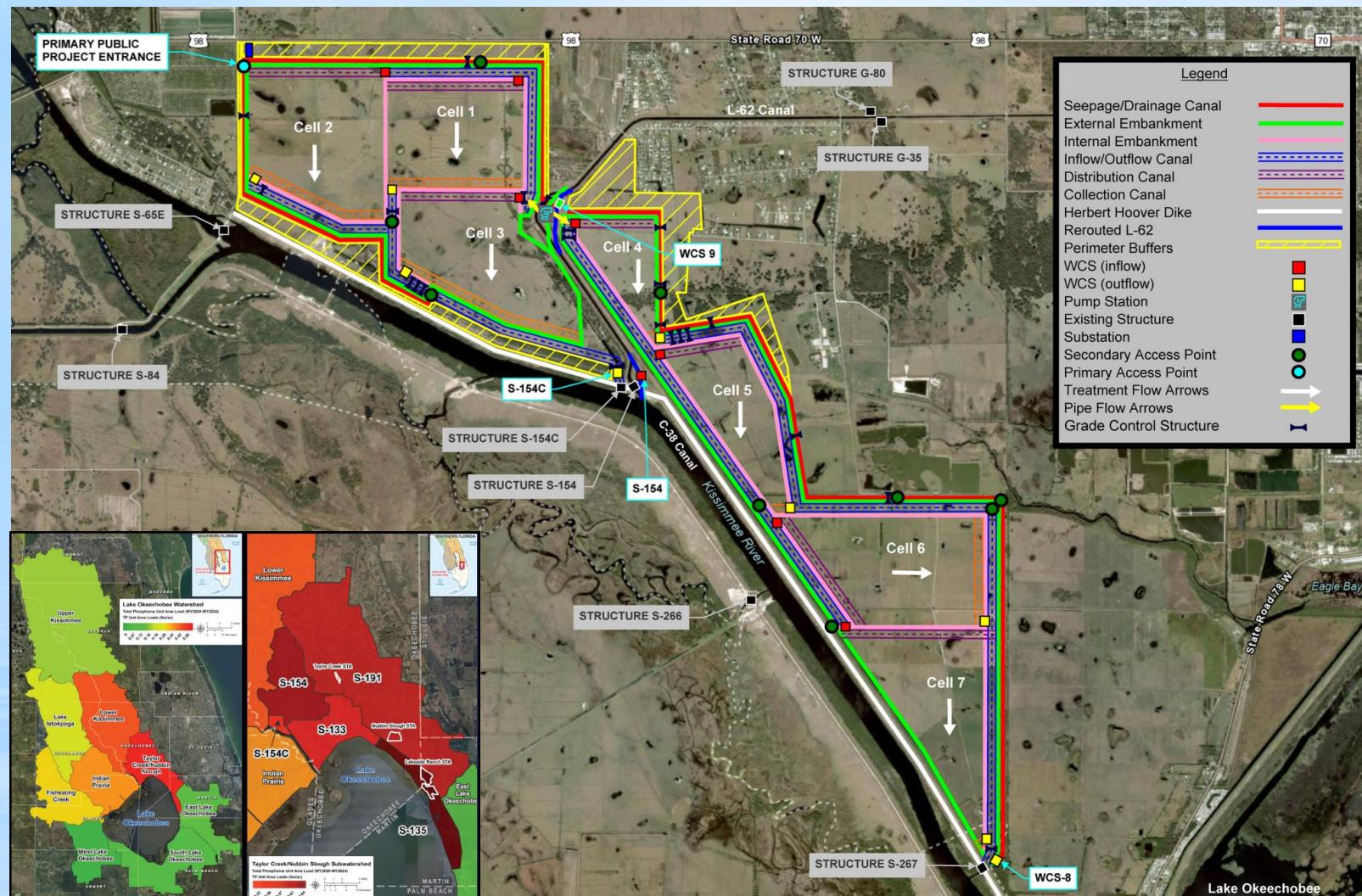
← after



- Restored the natural winding flow of the Kissimmee River
- More than 20,000 acres of wetlands and 44 miles of the historic river channel were restored.
- First successful large-scale riverine ecosystem restoration project in the country.



District Wetland Treatment and Recreation Areas - Lower Kissimmee Basin STA



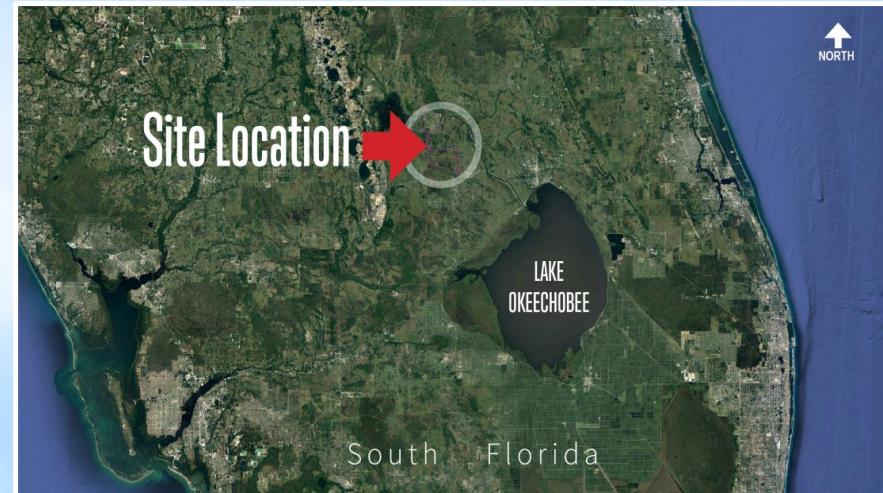
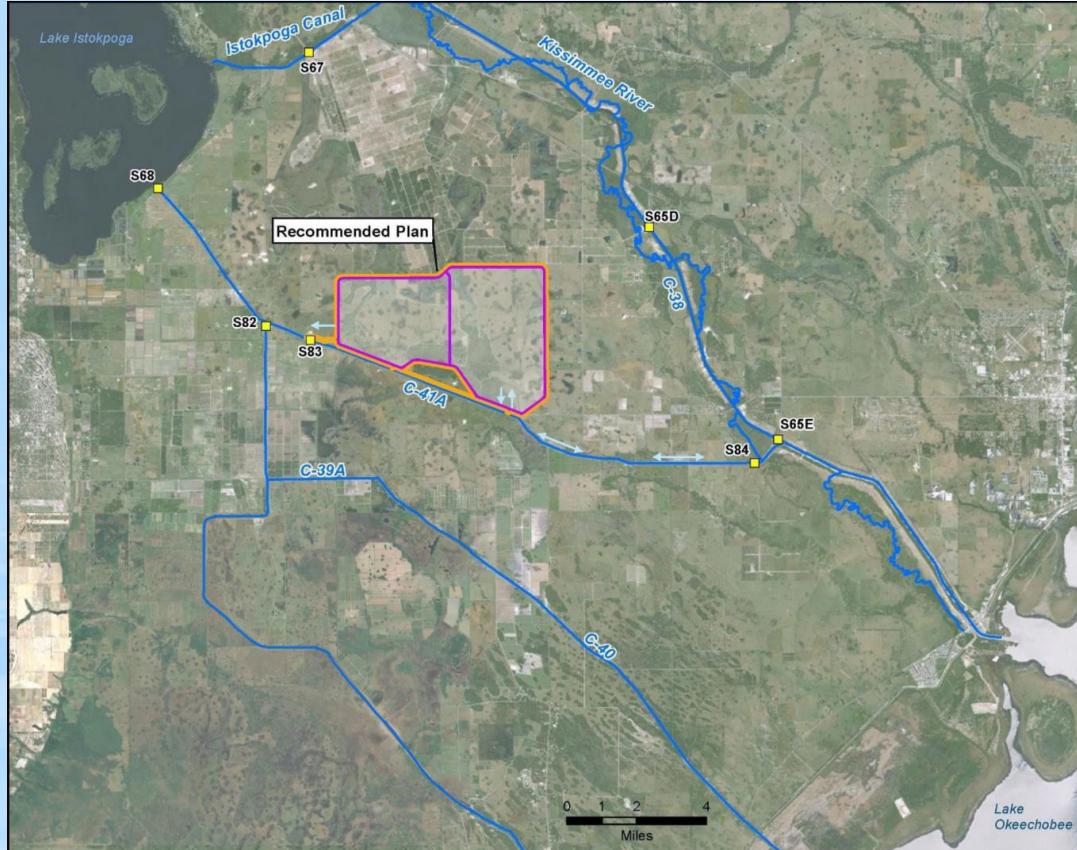
- We are in an all-hands on deck effort to clean water and restore the lake for recreation and sportsmen, and reduce harmful discharges
- This project will use wetland systems to capture and clean water before it flows into Lake Okeechobee
- It will be one of the largest treatment projects north of Lake Okeechobee
- It will significantly reduce pollution loads into Lake Okeechobee
- The project will provide regional water quality benefits.



Storage North of Lake Okeechobee

➤ Above Ground Storage

- Authorized in the *Water Resources Development Act of 2024*



- Estimated 140 billion gallons of storage capacity
- Store excess water in the northern watersheds and release water at times when it is beneficial for the region.
- Reduce the duration and frequency of both high and low water levels in Lake Okeechobee.
- Reduce likelihood of harmful discharges from Lake Okeechobee to northern estuaries.



Storage North of Lake Okeechobee

➤ Below Ground Storage – Aquifer Storage and Recovery (ASR)



Lake Okeechobee Watershed Restoration – Partnerships and the Path Forward



Lykes' Brighton Valley Project



Partin Family Ranch



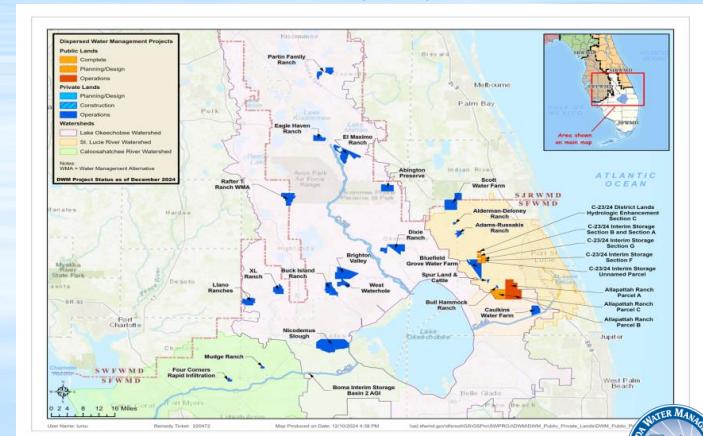
El Maximo Ranch Northern Everglades Water Quality Project



Bull Hammock Ranch Expansion



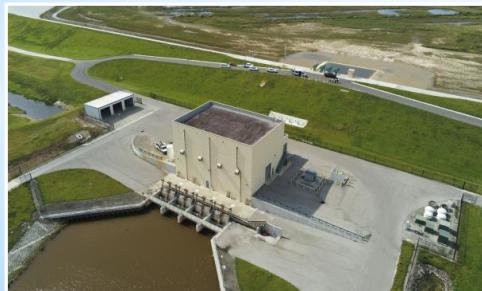
Basinger Dairy



Storage East and West Help Lake Okeechobee Water Levels



C-44 STA



C-44 Pump Station



C-43 Pump Station



C-43 Reservoir

Florida's leadership has already resulted in faster, cleaner, and more affordable restoration efforts. Since 2019:

- The C-43 Reservoir was completed last July to deliver 55 billion gallons of water storage with a high-capacity pump station.
- The C-44 Reservoir is two-thirds operational and protecting the St. Lucie Estuary.
- S-333 Culvert Expansion, Miami-Dade Seepage Barrier, and Old Tamiami Trail Removal were completed ahead of schedule, improving freshwater flow to key ecosystems.
- Leaving Florida better than we found it and keeping that promise for future generations.

The State of Florida has the experience, urgency and determination to get the job done. We have proven our ability to manage restoration projects efficiently.

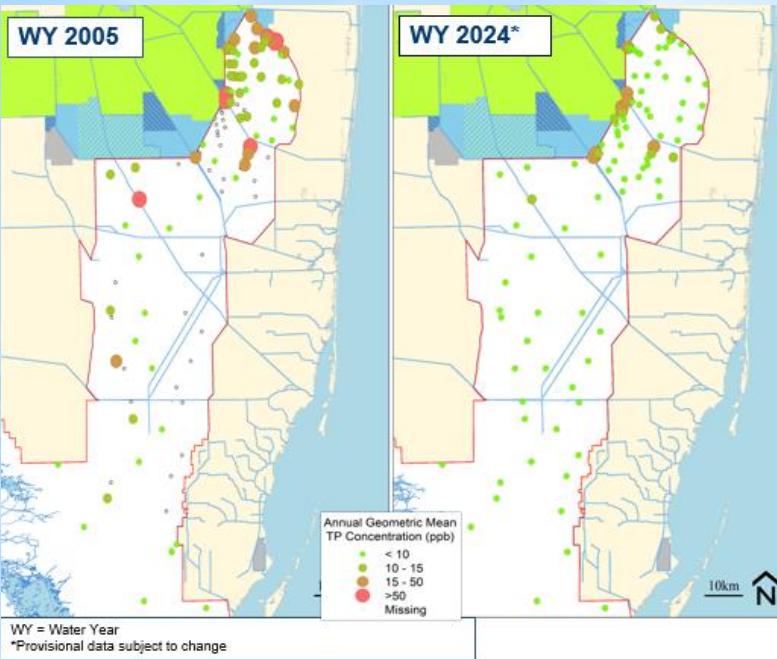


Storage South to Reduce Damaging High Lake Levels



Sending Water South: Clean Water for the Everglades

- Completed the last construction project in 2024 to ensure Clean Water for the Everglades.
 - More than 6,500 acres of constructed wetlands
 - More than 115,000 acre-feet of water storage

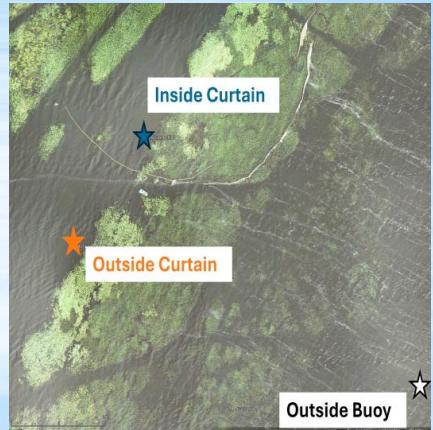
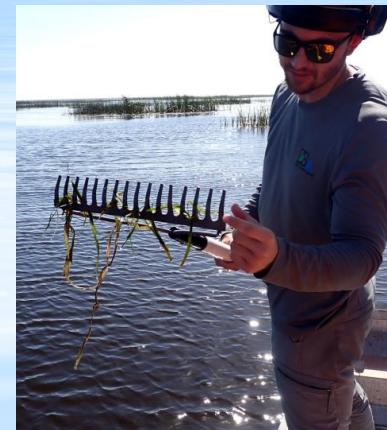


C-139 Flow Equalization Basin and the Completion of Restoration Strategies

Today, more than **98%** of the Everglades Protection Area have phosphorous concentrations at or below **10 parts per billion**.



Lake Okeechobee In-Lake Project Highlight

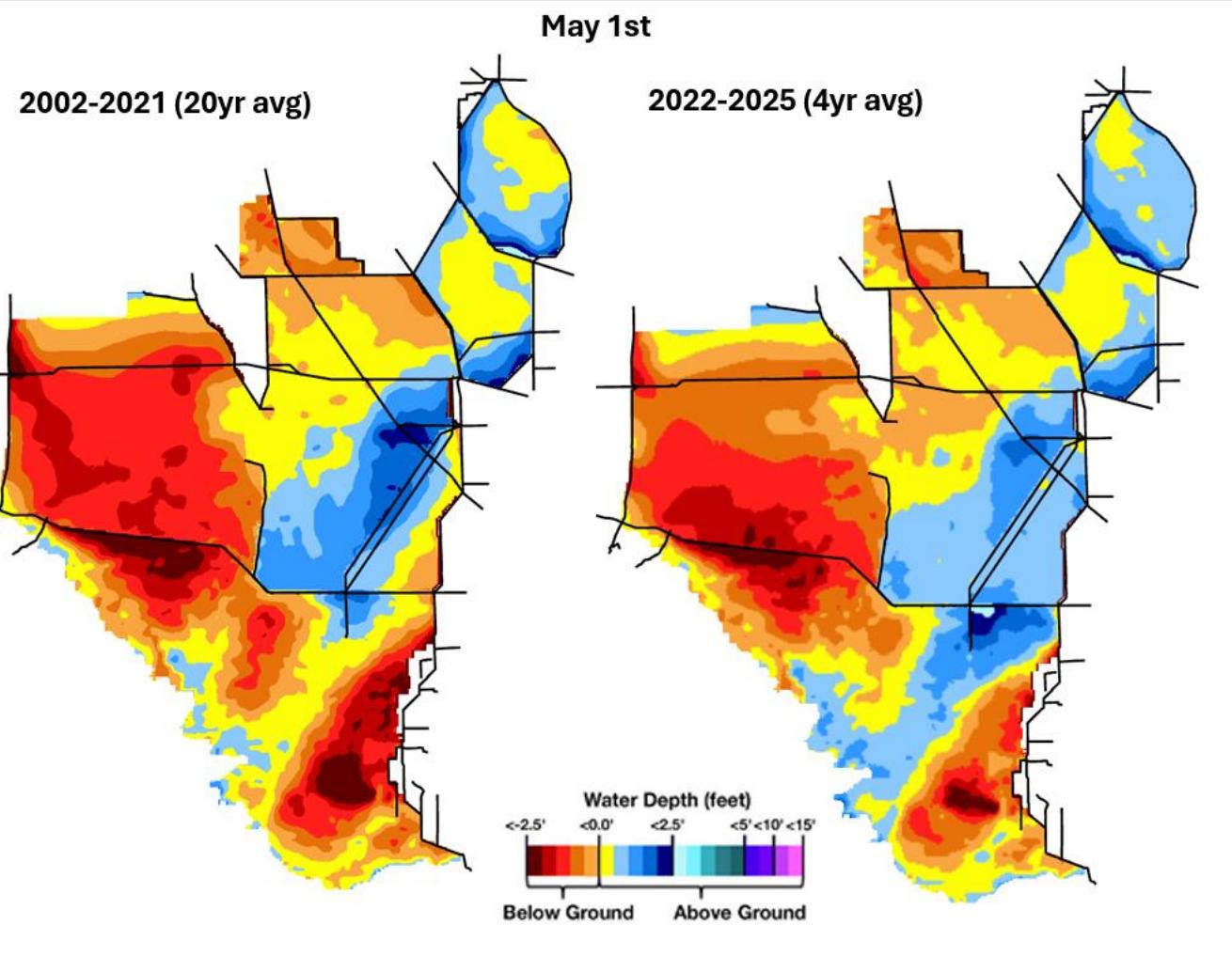


Submerged Aquatic Vegetation (SAV Protection)

In-Lake Vegetation Restoration



Seeing Results – Many More To Come



DECREASED DISCHARGES

Over the last six years there has been a significant decrease in the average annual volume of harmful discharges from Lake Okeechobee to the St. Lucie and Caloosahatchee estuaries.

ST. LUCIE
2011-2018
319,833
acre-feet per year

**86%
DROP**
2019-2024
45,167
acre-feet per year

CALOOSAHATCHEE
2011-2018
840,167
acre-feet per year

**75%
DROP**
2019-2024
213,167
acre-feet per year

- Annual nutrient reduction totals have reached over 1.8 million pounds of nitrogen, and 770,000 pounds of phosphorus removed from Florida's waterways.

Record Hydration in the Everglades

- This graphic demonstrates that restoration projects and operations work well together to nourish the Everglades, send water south and support the health of Florida Bay.

10/15/25

Meeting Date

ENR

Committee

Name Drew BARNETT

Phone 561-682-6997

Address _____
Street _____

Email Drew.Barnett@SFWMD.gov

City _____ State _____ Zip _____

Speaking: For Against Information

OR

Waive Speaking: In Support Against

PLEASE CHECK ONE OF THE FOLLOWING:

I am appearing without compensation or sponsorship.

I am a registered lobbyist, representing: SFWMD

I am not a lobbyist, but received something of value for my appearance (travel, meals, lodging, etc.), sponsored by: _____

While it is a tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this hearing. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard. If you have questions about registering to lobby please see Fla. Stat. §11.045 and Joint Rule 1. [2020-2022JointRules.pdf](#) (flsenate.gov)

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S-001 (08/10/2021)

10/15/25

Meeting Date
Environment and Natural Resources

Committee

Name **Adam Basford**

Address **516 N Adams St**
Street

Tallahassee **FL**

City State

Zip

The Florida Senate
APPEARANCE RECORD

Deliver both copies of this form to
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DUPLICATE

Lake Okeechobee

Bill Number or Topic

Amendment Barcode (if applicable)

Phone **352-538-4299**

Email **abasford@aif.com**

Speaking: For Against Information

OR

Waive Speaking: In Support Against

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S-001 (08/10/2021)

Lake Okeechobee Recovery Operations 2024-2025

15 October 2025

Col. Brandon Bowman

Commander, Jacksonville District

U.S. Army Corps of Engineers



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US Army Corps
of Engineers®



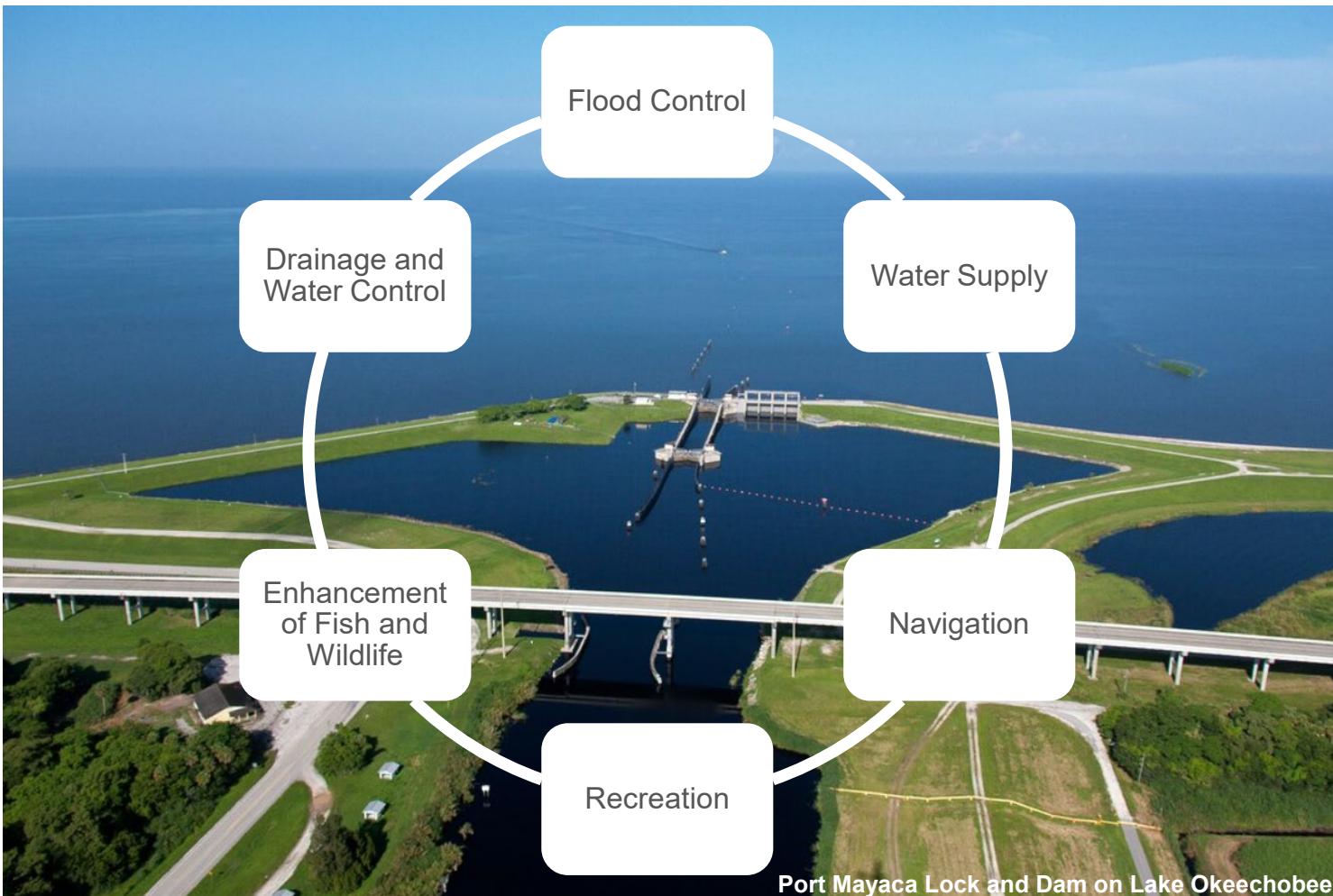
Lake Okeechobee 2020



Lake Okeechobee 2024



LAKE OKEECHOBEE CONGRESSIONALLY AUTHORIZED PROJECT PURPOSES



Port Mayaca Lock and Dam on Lake Okeechobee



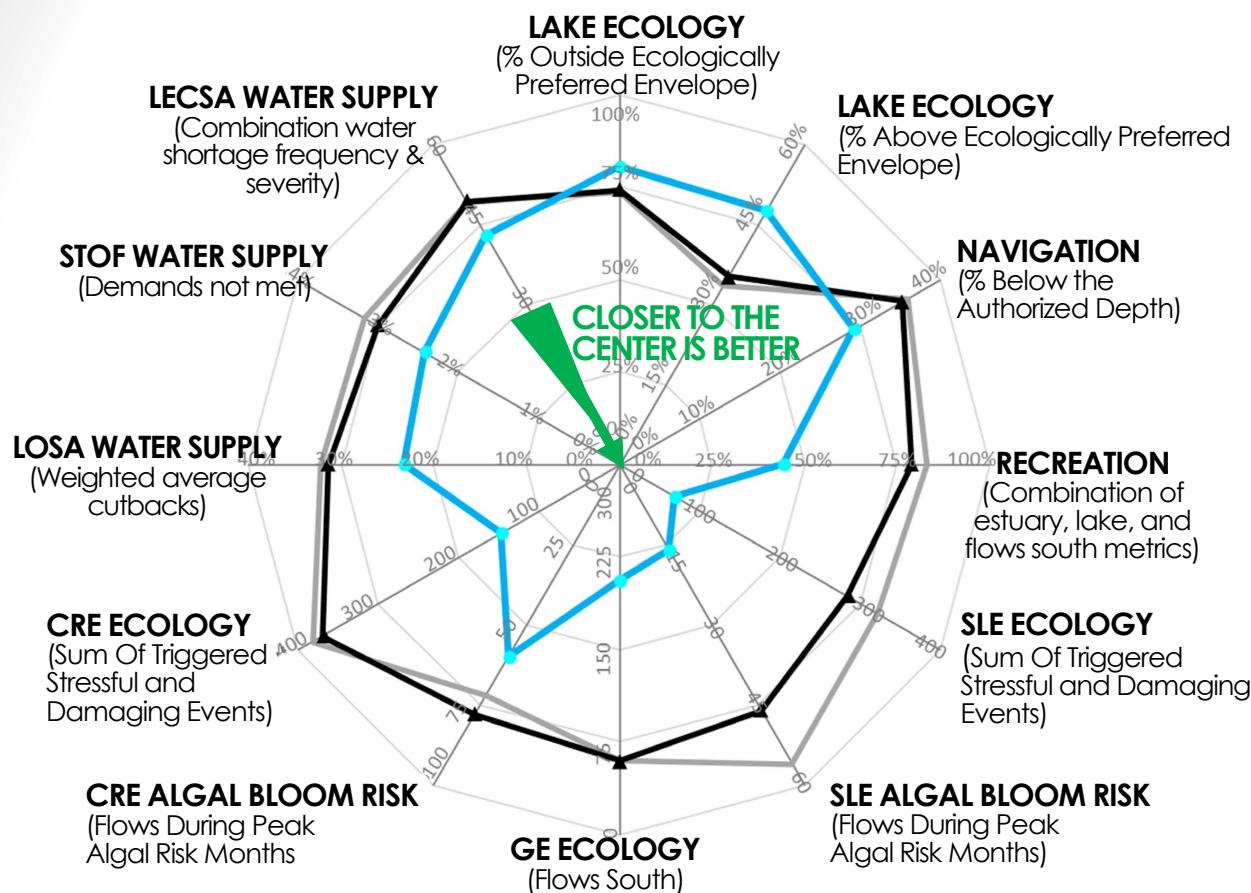
LOSOM BENEFITS AND EFFECTS

PREFERRED ALTERNATIVE PERFORMANCE OVERVIEW



3

MULTI-OBJECTIVE PERFORMANCE COMPARISON



LEGEND:

LOSOM PREFERRED ALTERNATIVE

LORS08
(with 2025 conditions)

LORS08
(with 2019 conditions)

CRE: Caloosahatchee River Estuary

GE: Greater Everglades

LECSA: Lower East Coast Service Area

LOSA: Lake Okeechobee Service Area

LORS08: Lake Okeechobee Regulation Schedule 2008

LOSOM: Lake Okeechobee System Operating Manual

SLE: St. Lucie River Estuary

STOF: Seminole Tribe of Florida



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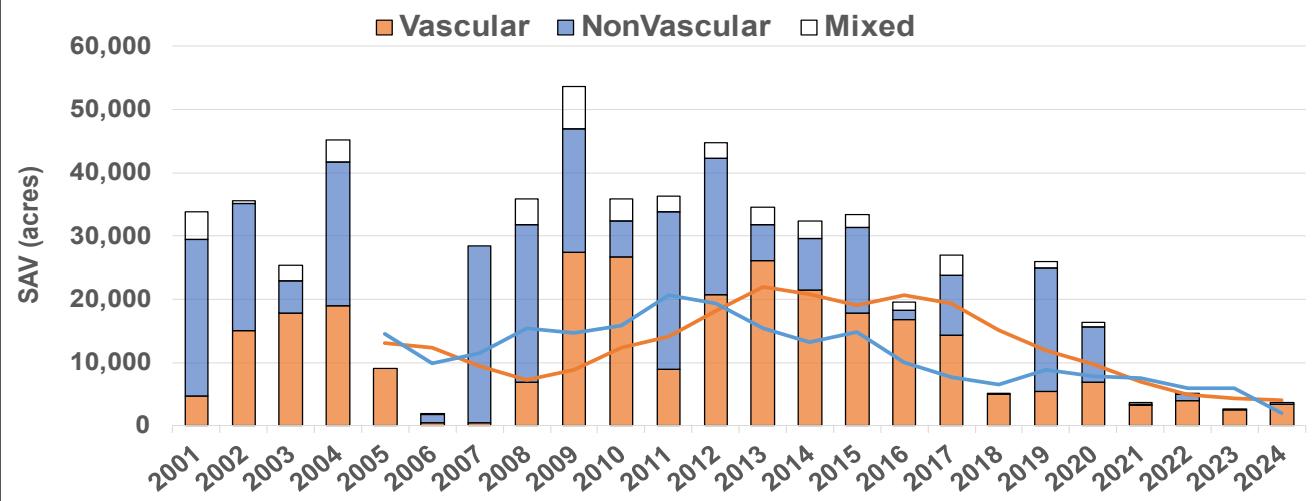
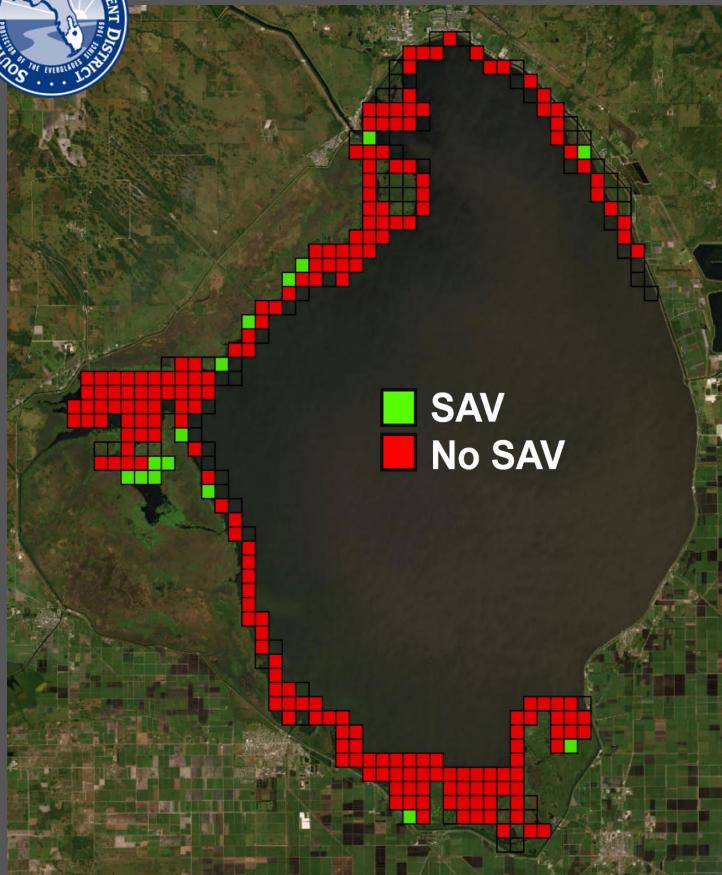
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LAKE OKEECHOBEE

Submerged Aquatic Vegetation (SAV) 2024



SAV Coverage 2024





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LAKE RECOVERY OPERATION CHECKS (FALL 2024)



5

Intent:

- Bring lake stages below 12' NGVD to allow recovery of SAV

Releases during the dry season:

(all within optimal ranges for CRE, SLE, LWL):

- Up to 2,100 cfs at CRE
- Up to 1,400 cfs at SLE
- Up to 300 cfs at LWL
- Up to maximum practicable south

Success:

- Stage <12.0 feet for 90 days or
- Stage <11.5 feet for 60 days

Notes:

- Rely on SFWMD for water supply assessment
- Recovery Operations can be terminated at any point during drawdown.

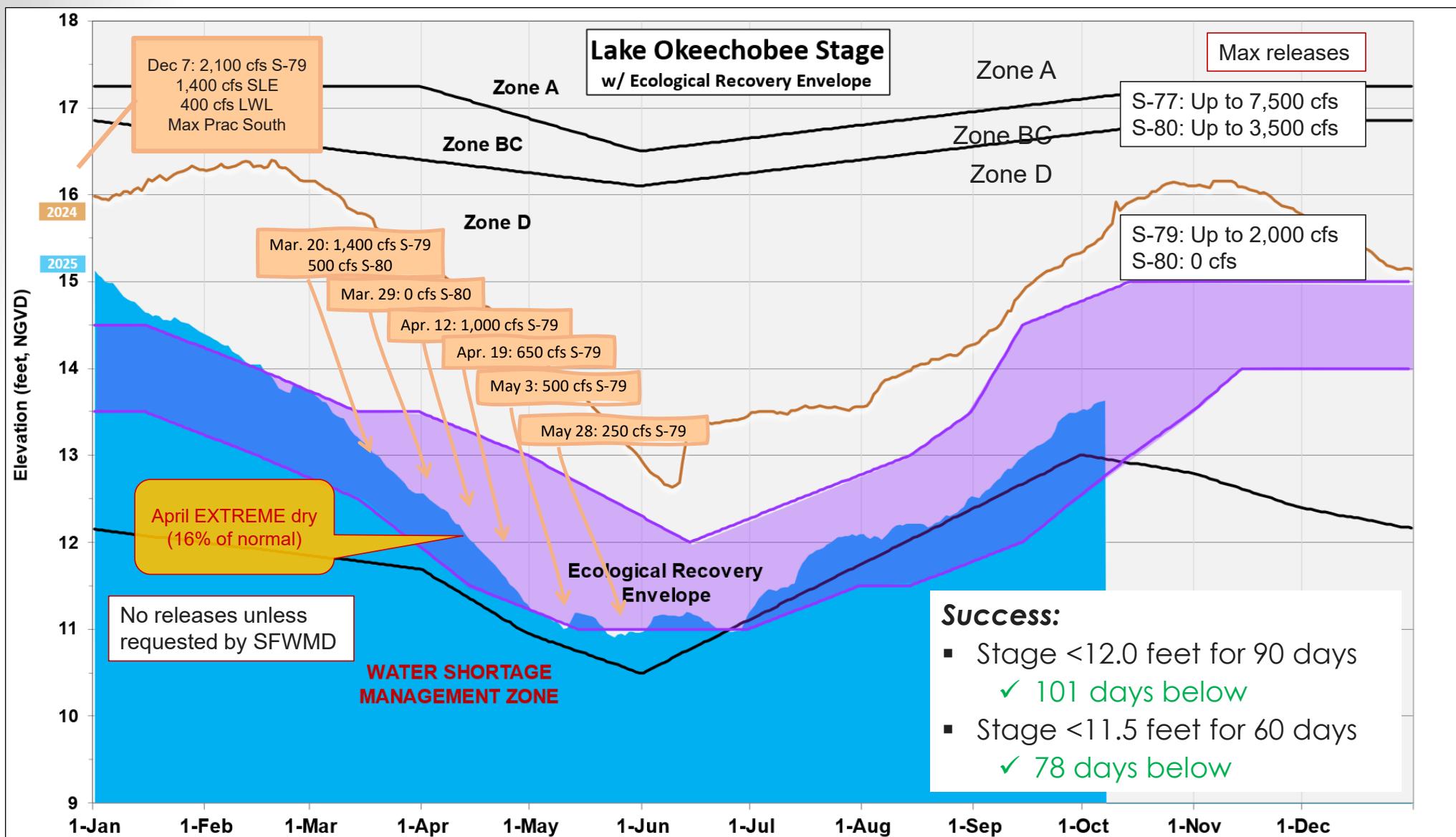
Indicators (not hard triggers):

- ✓ If stages rise above 17 feet or **do not recede below 13 feet** (for 30 days in the summer)
- ✓ SAV coverage in the lake significantly reduced (<11,000 acres)

Considerations at beginning of dry season:

- Moderate to strong winter/spring ENSO event **not** predicted
 - ✓ **La Niña forecasted to be weak event**
- Lake stages have **not** receded below 11 FT in the last 5 years
 - ✓ **2020 minimum stage 11 feet**
- Ecological and Snail kite conditions
 - ✓ **Total nests on LOK: 109, total successful on LOK: 32**
- Water supply
 - ✓ **Stages above 15.5 feet already**

LOSOM WCP Section 7.5.8





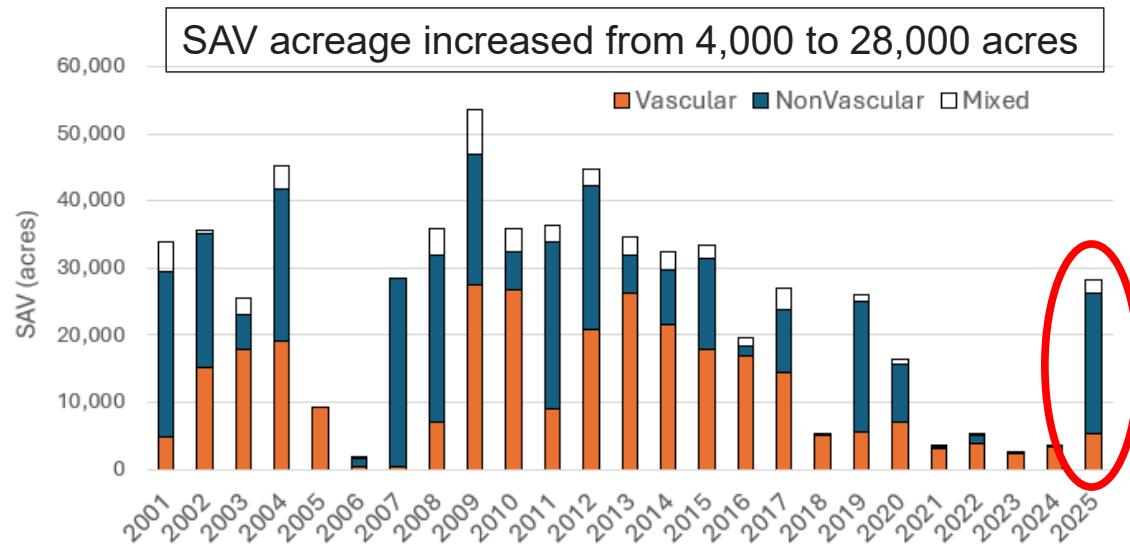
RECOVERY OPERATIONS PERFORMANCE

SUMMER 2025



Positive Outcomes

- Improved Lake Conditions
 - Water clarity improved
 - Decreased dissolved nutrients
- ~214 days in ecological recovery envelope
- 101 days below 12ft (90 days for success)
- 78 days below 11.5ft (60 days for success)



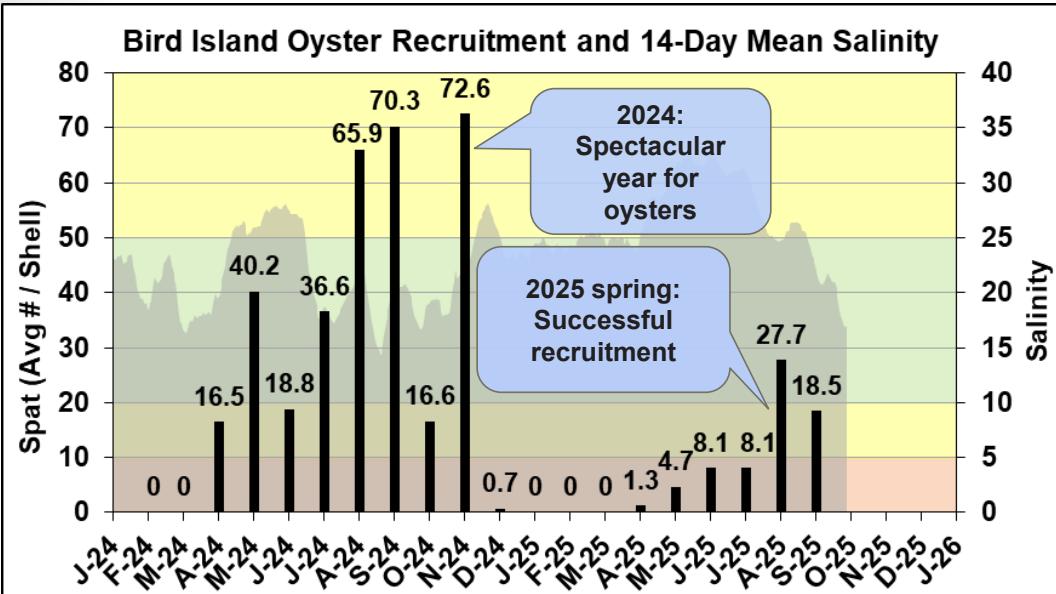


RECOVERY OPERATIONS PERFORMANCE

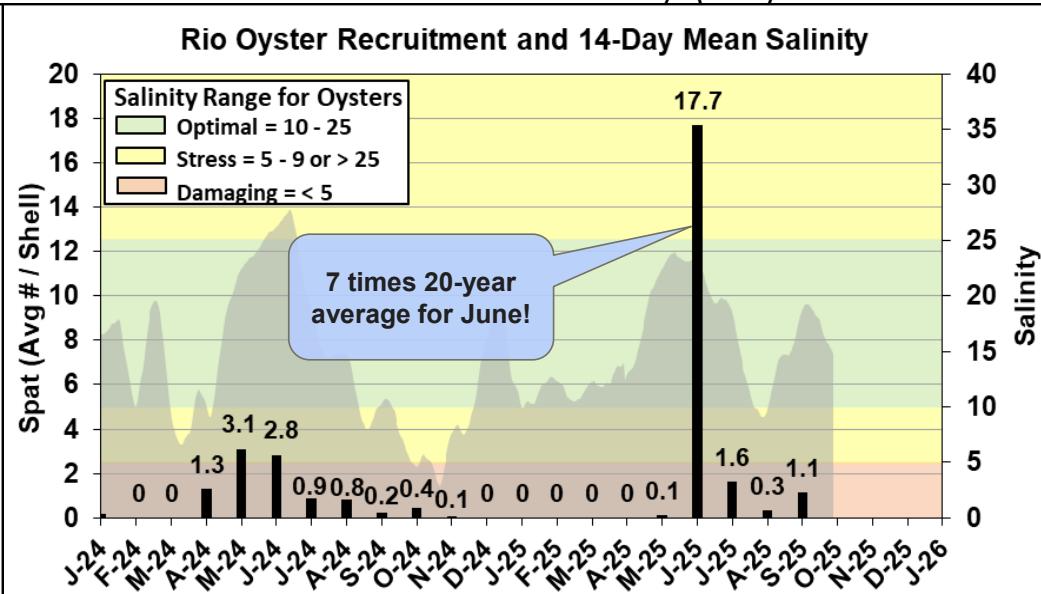
OYSTER SPAWN



Caloosahatchee River Estuary



St. Lucie River Estuary (SLE)





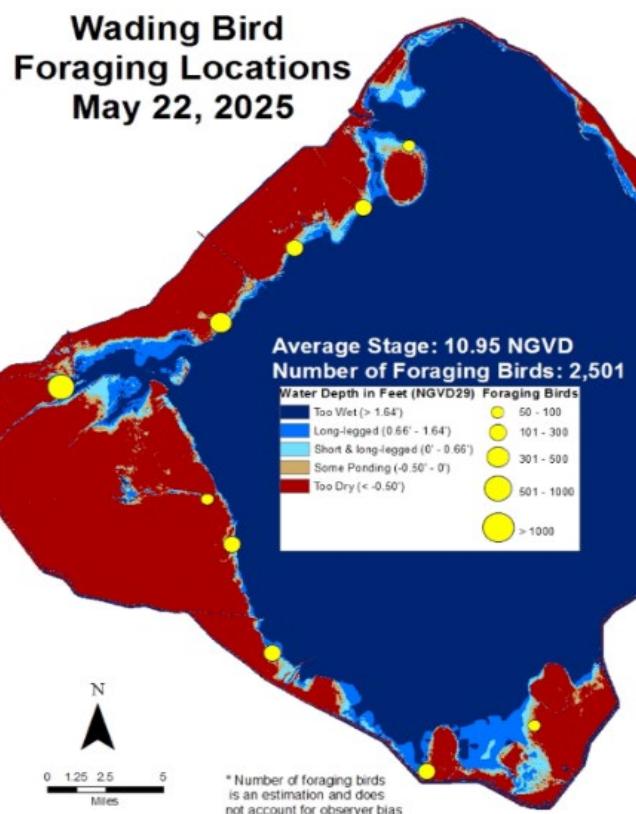
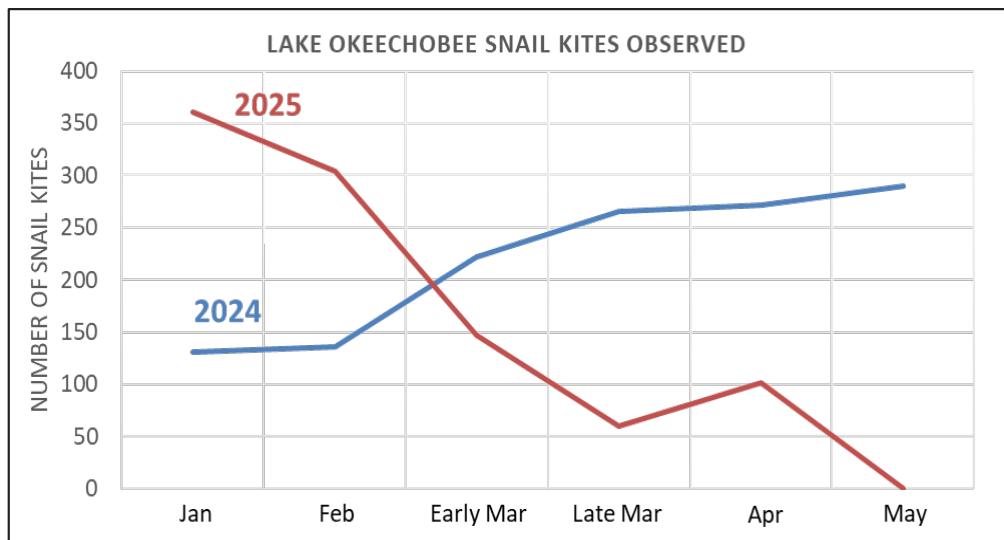
RECOVERY OPERATIONS PERFORMANCE

SUMMER 2025



Negative Outcomes

- Navigational impacts with low water in both lake routes, C-44, and C-43
 - 158 days below 12.56 feet
- Reduced snail kite and wading bird activity due to decreased foraging area





RECOVERY OPERATIONS PERFORMANCE

OUTSTANDING METRICS



- Monitoring Lake Okeechobee ecological indicators over time will be the true indicator of success
 - SAV coverage
 - Bass fishery surveys
 - Wading bird nesting/foraging
 - Everglades Snail Kite nesting/foraging and Apple Snail population
- Impacts to water supply evaluated over time







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12

QUESTIONS & DISCUSSION



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BACK UP SLIDES



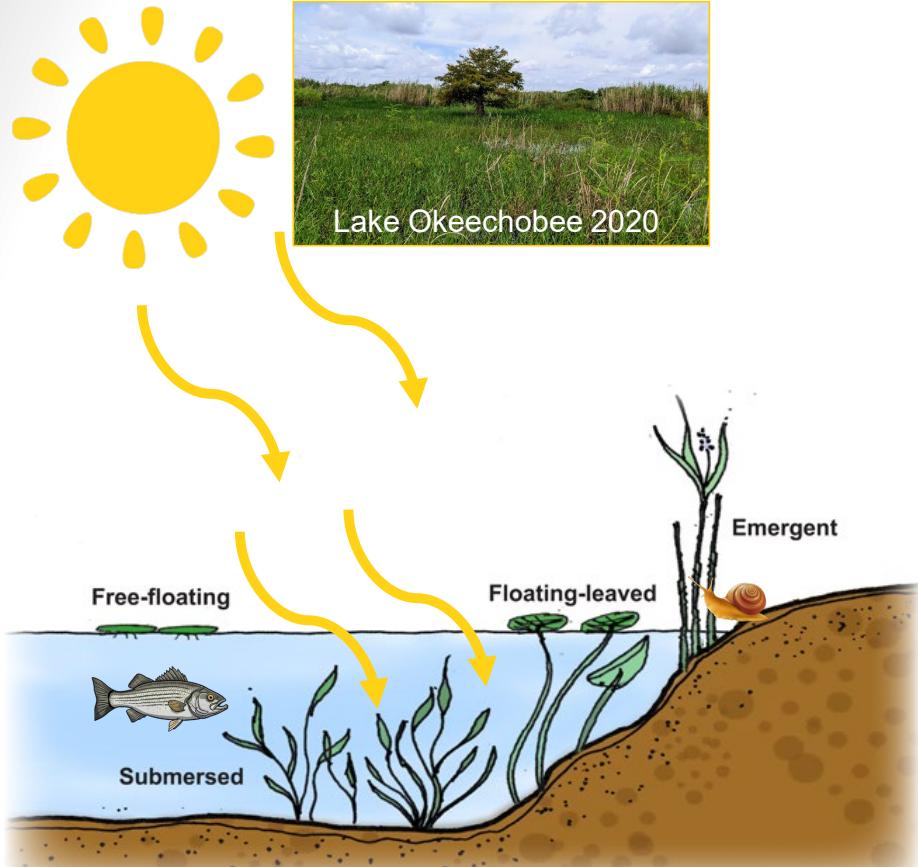
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LAKE OKEECHOBEE SUBMERGED VEGETATION

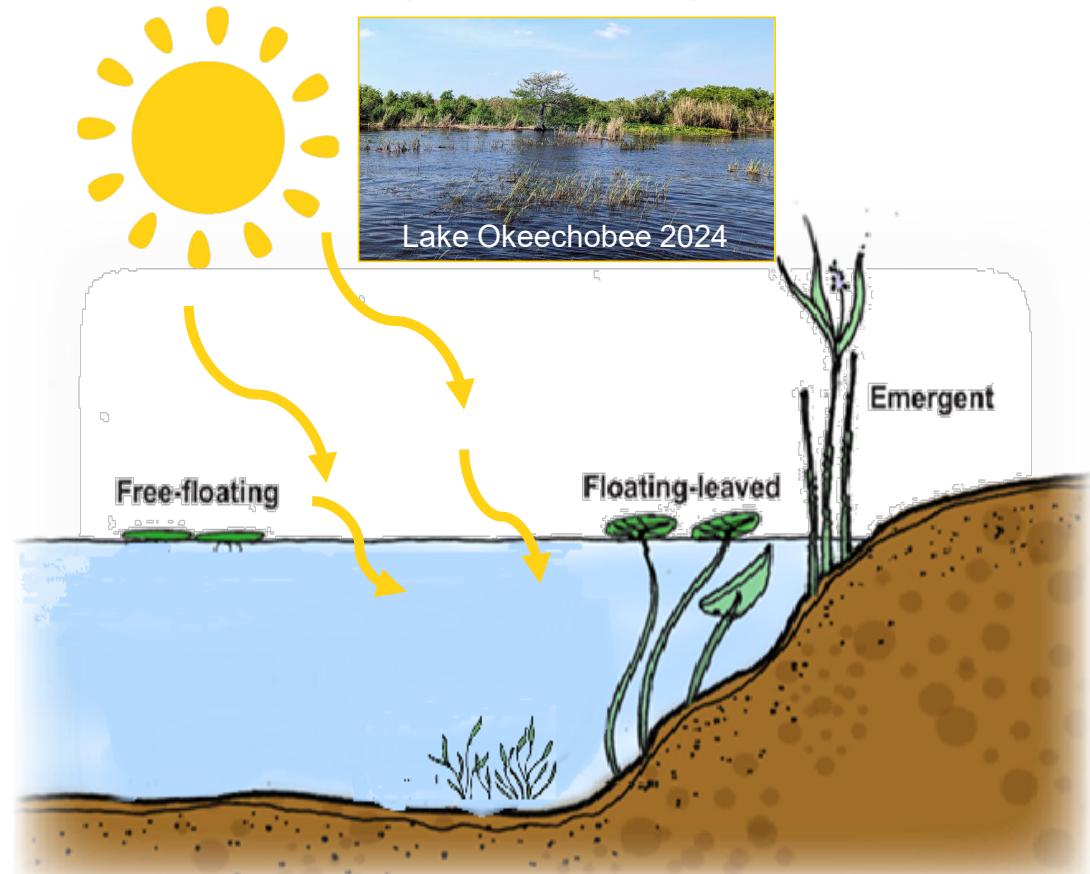


14

Moderate to shallow lake depths



Deep water lake depths





LAKE OKEECHOBEE VALUE TO THE NATION

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15

VALUE TO THE NATION FAST FACTS

USACE RECREATION 2019 LAKE REPORT OKEECHOBEE WATERWAY FL

Natural and recreational resources at USACE lakes provide social, economic and environmental benefits for all Americans. The following information highlights some of the benefits related to USACE's role in managing natural and recreational resources in Okeechobee Waterway FL.

LAKE DESCRIPTION

Project Name: Okeechobee Waterway FL
USACE District: Jacksonville District
USACE Division: South Atlantic

State: Florida
Watershed: Southern Florida

SOCIAL BENEFITS

- 6 recreation areas
- 25 picnic sites
- 76 camping sites
- 1 playgrounds
- 0 swimming areas
- 1 trails
- 1 trail miles
- 2 fishing docks and piers
- 4 boat ramps
- 0 marina slips

Public Outreach in FY 2019

- 807 public outreach contacts

Visits (person-days/nights) in FY 2019

- 552,833 in total
- 73,447 picnickers
- 16,900 campers/overnight visitors
- 84,550 swimmers
- 47,902 walkers/hikers/joggers
- 92,274 boaters
- 308,928 sightseers
- 68,710 anglers
- 16,254 special event attendees
- 20,355 others

Benefits in Perspective

By providing opportunities for active recreation, USACE lakes help combat one of the most significant of the nation's health problems: lack of physical activity.

Recreational programs and activities at USACE lakes also help strengthen family ties and friendships; provide opportunities for children to develop personal skills, social values, and self-esteem; and increase water safety.

ECONOMIC BENEFITS

Economic Data in FY 2019

Visitation per year resulted in:

- \$ 24,271,647 in visitor spending within 30 miles of the USACE lake
- \$ 11,681,991 in sales within 30 miles of the USACE lake
- 162 jobs within 30 miles of the USACE lake
- \$ 5,384,169 in labor income within 30 miles of the USACE lake
- \$ 7,211,525 in value added within 30 miles of the USACE lake
- \$ 4,282,786 in National Economic Development Benefits

With multiplier effects, visitor trip spending resulted in:

- \$ 19,334,058 in total sales
- 218 jobs
- \$ 7,923,981 in labor income
- \$ 11,656,795 in value added (wages & salaries, payroll benefits, profits, rents, and indirect business taxes)

Benefits in Perspective

The money spent by visitors to USACE lakes on trip expenses adds to the local and national economies by supporting jobs and generating income. Visitor spending represents a sizable component of the economy in many communities around USACE lakes.

[How these numbers were calculated.](#)

ENVIRONMENTAL BENEFITS

Resources in FY 2019

- 289 land acres
- 450,636 water acres
- 4 shoreline miles

Benefits in Perspective

Recreation experiences increase motivation to learn more about the environment; understanding and awareness of environmental issues; and sensitivity to the environment.



LAKE OKEECHOBEE INVASIVE SPECIES MANAGEMENT



USACE has 126 years of experience with invasive plant management.



All management decisions are guided by legal compliance and decades of research.



Partnerships and Consistency is the best management strategy.



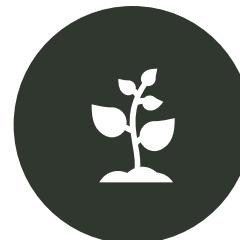
Proactive management is both economically and ecologically beneficial.



Why manage plants on Lake Okeechobee



Navigation



Ecosystem
Restoration



Flood Control

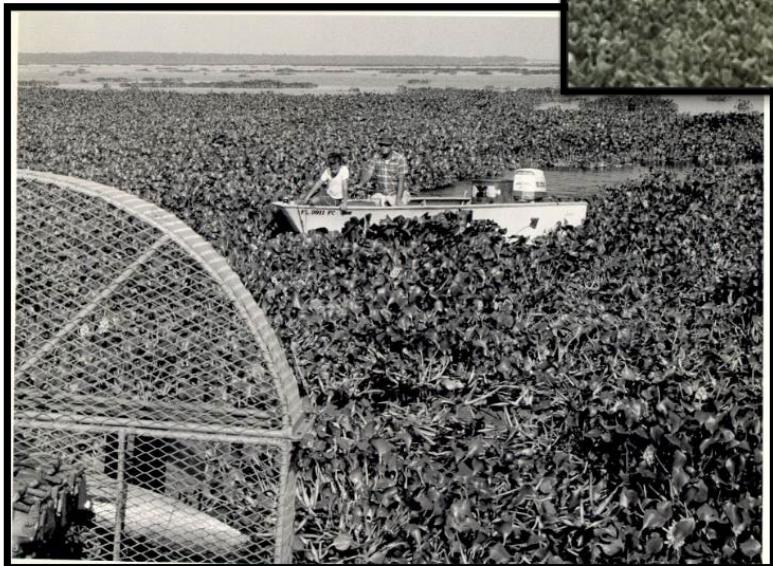


U.S. ARMY

125 years of Invasive Species



18





U.S. ARMY

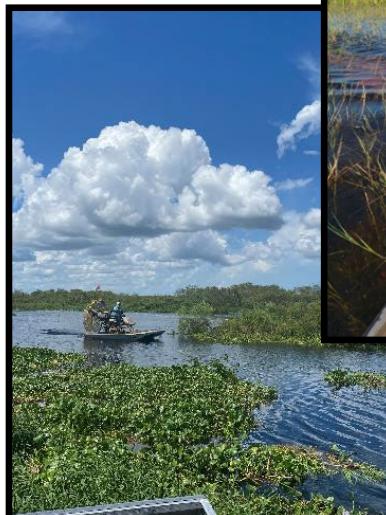


Biocontrol



- Most economical
- Varying efficacy
- Reduce risks

Integrated Pest Management



Chemical control

- Selective (minimal non-target damage)
- Cost effective
- Best way to achieve 'maintenance control'



Mechanical control



- Best on floating islands
- 10 to 50 times more costly than chemical
- Non-selective, turbidity, substrate
- Non-target damage, substrate



U.S. ARMY

THE INVASION CURVE

AREA INFESTED →



Eradication

Prevention

Species absent

Small number of localized populations; eradication possible

Rapid increase in distribution and abundance; eradication unlikely

Asset Based Protection
& Long-term Management

TIME →

CONTROL COSTS →

Introduction

Containment

Asset Based Protection
& Long-term Management



Lake Okeechobee Aquatic Plant Management Interagency Task Force



- Est. 1987
- Quarterly meetings held by USACE
- Involves multiple state, federal, and county agencies and universities

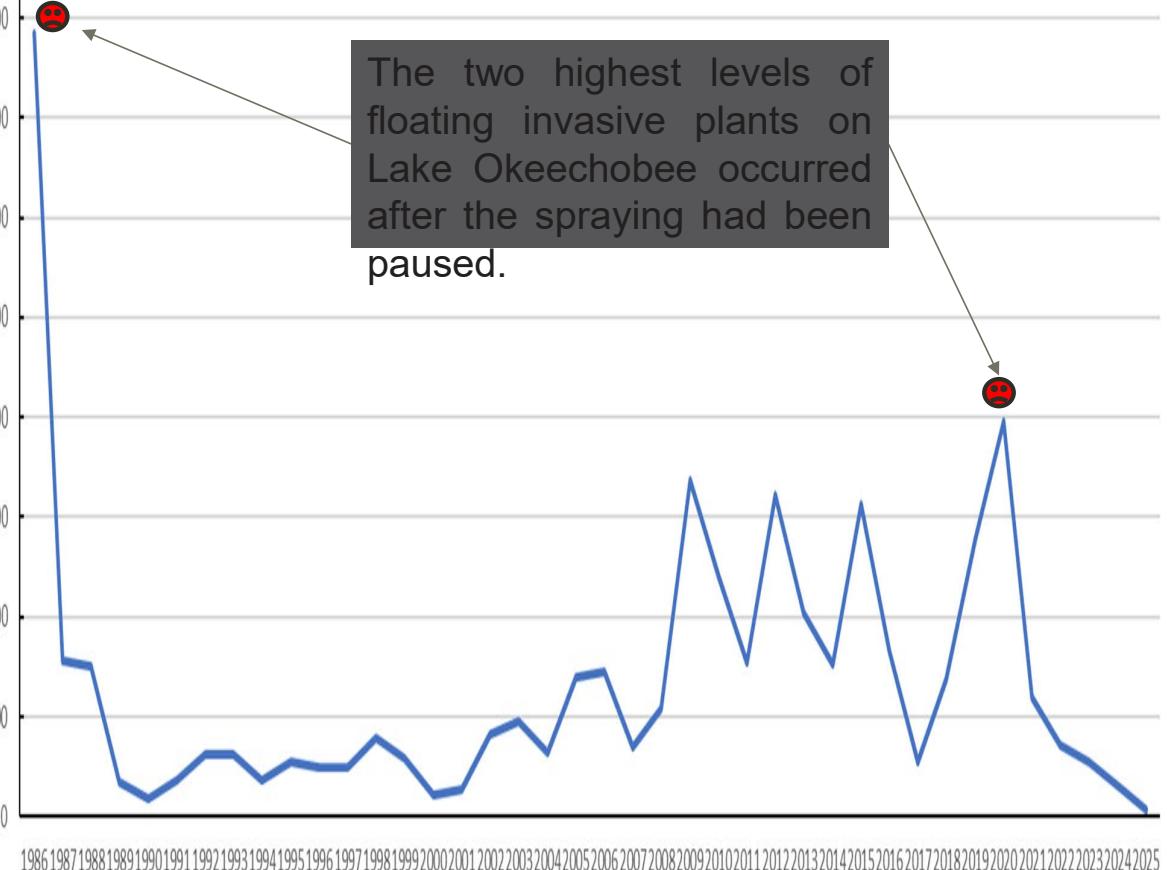


2. The Corps of Engineers shall chair, and actively solicit participation in, the Lake Okeechobee Aquatic Plant Management Interagency Task Force. The Task Force members will represent State of Florida agencies (including the South Florida Water Management District), State Universities, the Corps of Engineers, and other Federal agencies. The Task Force will serve in an advisory capacity, providing multi-disciplinary technical and scientific data from which the Corps' aquatic plant management strategy, methodology, and research planning and operational efforts will evolve. The focus of the aquatic plant effort will be to benefit the overall ecological health of Lake Okeechobee.



Spray Moratorium of 1986 and 2019 Pause

The two highest levels of floating invasive plants on Lake Okeechobee occurred after the spraying had been paused.



1986



2019

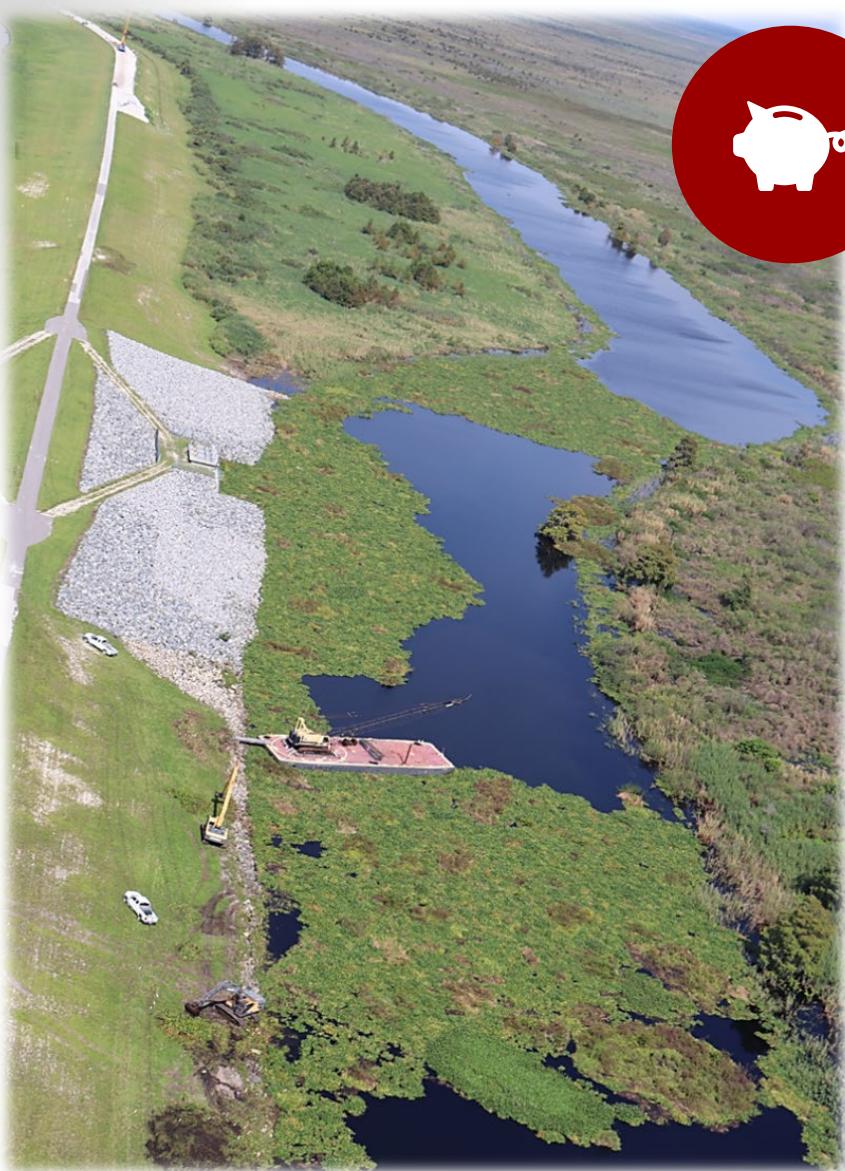




October 13, 2020

(post Spray Pause)

Waterway Blockage - Lock shutdown

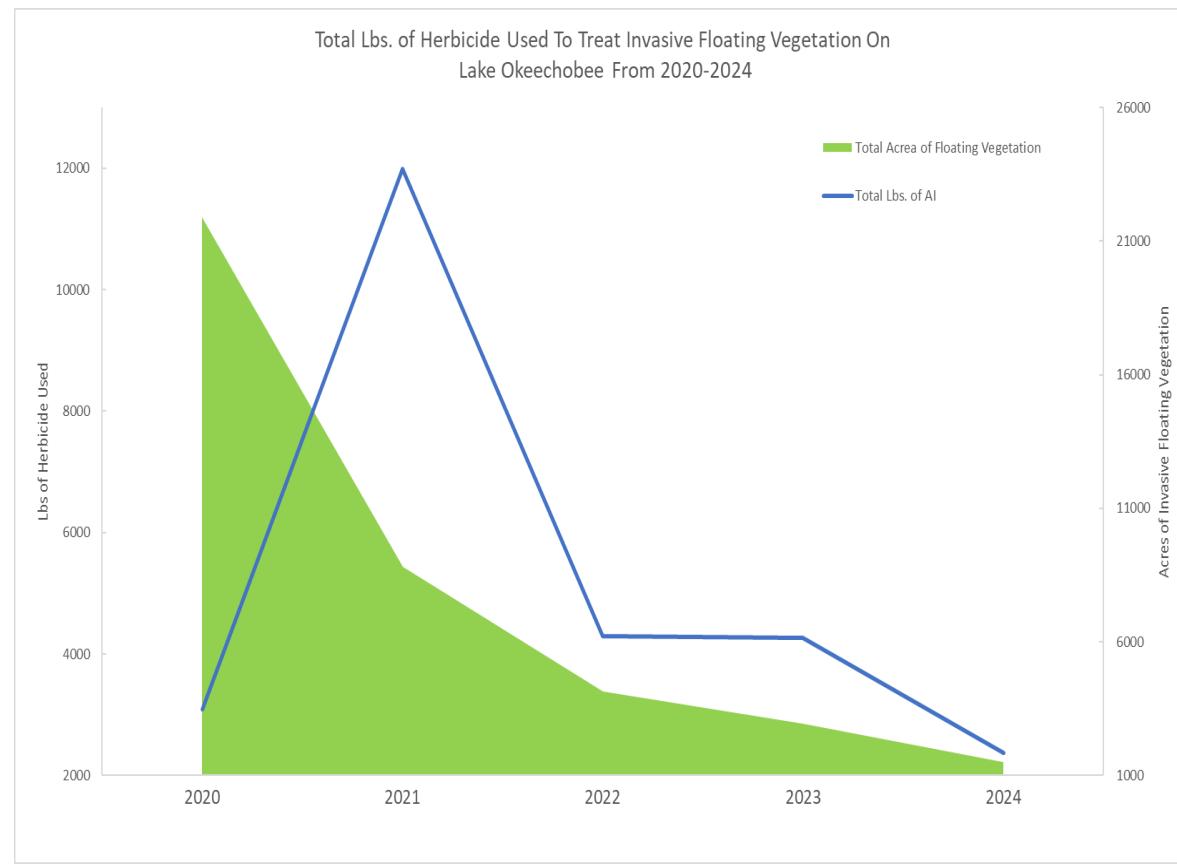


Results of Proactive Management

- 2020 and 2021- majority of damage was seen from the 3-month spray pause

Since 2021 USACE & FWC ARE:

- Using **80% less** herbicide
- Treating **44% less** acres
- Reduced Invasive Floating Vegetation Acreage by **83%** since 2020
***** even less in 2025**





U.S. ARMY

25



Impacts if we can't use herbicides:

- Navigation – increased blockages and lock shutdowns
- Flood Risk – impact to structures, reduced water flow
- Environmental – native plants reduction
- HABs – won't be able to treat w/peroxide
- Safety - Safe Harbor operations impacted
- Water supply/Ag culverts and pumps
- Costs will increase 10% to 50% using just mechanical (\$600K to over \$6M)

Additional Info:

- All herbicides are EPA approved and sprayed at legal rates
- Maintenance Control reduces herbicide use, sediment buildup and costs
- We are constantly improving methods and tools - work with ERDC research and partners
- LOSOM – uncertain changes



15 Oct 2025

Meeting Date

Env /Natural Resources

Committee

Name Col Brandon Bowman

Phone

Address 701 San Marco Blvd
Street

Email brandon.l.bowman@usace.army.mil

Jacksonville FL
City State Zip

Speaking: For Against Information

OR Waive Speaking: In Support Against

PLEASE CHECK ONE OF THE FOLLOWING:

I am appearing without compensation or sponsorship.

I am a registered lobbyist, representing:

I am not a lobbyist, but received something of value for my appearance (travel, meals, lodging, etc.), sponsored by:

While it is a tradition to encourage public testimony, time may not permit all persons wishing to speak to be heard at this hearing. Those who do speak may be asked to limit their remarks so that as many persons as possible can be heard. If you have questions about registering to lobby please see Fla. Stat. §11.045 and Joint Rule 1. [2020-2022JointRules.pdf](https://flsenate.gov/2020-2022JointRules.pdf) (flsenate.gov)

This form is part of the public record for this meeting.

S-001 (08/10/2021)



THE FLORIDA SENATE

Tallahassee, Florida 32399-1100

SENATOR BRYAN AVILA

39th District

COMMITTEES:

Finance and Tax, *Chair*
Transportation, Vice Chair
Appropriations Committee on Transportation,
Tourism, and Economic Development
Environmental and Natural Resources
Ethics and Elections
Fiscal Policy
Rules

October 15, 2025

On Behalf of Senator Bryan Avila:

The Honorable Ana Maria Rodriguez
The Florida Senate
3625 Knott Building
404 S. Monroe Street
Tallahassee, FL 32399

REF: Absence Excuse Request

Honorable Chairman Rodriguez:

Please excuse my absence from committee week two which is scheduled from Wednesday, October 15th, 2025. I have been activated to serve in the Florida Army National Guard during that time.

Please feel free to contact me with any questions.

Sincerely,

A handwritten signature in blue ink that reads "Bryan Avila".

Bryan Avila

CC: Ellen Rogers, Staff Director Committee on Environmental and Natural Resources
Kim Bonn, Committee Administrative Assistant

309 Senate Building, 404 South Monroe Street, Tallahassee, Florida 32399-1100 (850) 487-5039

Ben Albritton
President of the Senate

Jason Brodeur
President Pro Tempore

CourtSmart Tag Report

Room: SB 110

Case No.:

Type:

Caption: Senate Environment and Natural Resources Committee

Judge:

Started: 10/15/2025 1:32:14 PM

Ends: 10/15/2025 2:50:09 PM Length: 01:17:56

1:32:16 PM Chair Rodriguez calls meeting to order

1:32:19 PM Roll call

1:32:30 PM Quorum present

1:32:39 PM Senator Avila excused

1:33:06 PM Pledge of Allegiance

1:33:18 PM Chair Rodriguez opening remarks

1:33:38 PM Tab 1 Fish and Wildlife Conservation Commission presentation on the Lake Okeechobee Land Management Plan including exotic plant management

1:33:54 PM Mr. George Warthen, FWC presents

1:46:16 PM Chair Rodriguez

1:46:22 PM Senator Smith

1:47:06 PM George Warthen

1:48:33 PM Senator Smith

1:49:11 PM George Warthen

1:49:57 PM Senator Harrell

1:50:36 PM George Warthen

1:51:21 PM Senator Harrell

1:51:39 PM George Warthen

1:52:23 PM Chair Rodriguez

1:52:38 PM Tab 2 South Florida Water Management District presentation on lake ecology and nutrient pollution

1:52:46 PM Mr. Drew Bartlet

2:10:40 PM Chair Rodriguez

2:11:02 PM Senator Harrell

2:12:03 PM Drew Bartlet

2:12:43 PM Senator Harrell

2:12:49 PM Drew Bartlet

2:12:55 PM Senator Harrell

2:13:05 PM Drew Bartlet

2:13:18 PM Senator Harrell

2:13:44 PM Drew Bartlet

2:14:30 PM Senator Harrell

2:15:00 PM Drew Bartlet

2:16:14 PM Senator Harrell

2:16:40 PM Drew Bartlet

2:18:20 PM Senator Harrell

2:18:33 PM Drew Bartlet

2:18:57 PM Senator Smith

2:19:26 PM Drew Bartlet

2:19:59 PM Senator Smith

2:20:25 PM Drew Bartlet

2:21:51 PM Senator Smith

2:22:04 PM Drew Bartlet
2:22:57 PM Senator Smith
2:23:25 PM Drew Bartlet
2:23:34 PM Senator Smith
2:23:58 PM Drew Bartlet
2:24:35 PM Senator Smith
2:24:48 PM Drew Bartlet
2:25:24 PM Chair Rodriguez
2:25:41 PM Adam Basford, Associated Industries of Florida
2:28:46 PM Chair Rodriguez
2:29:07 PM Tab 3 U.S Army Core of Engineers presentation on Lake Okeechobee operations
2:29:17 PM Col. Brandon Bowman
2:41:30 PM Chair Rodriguez
2:41:33 PM Senator Harrell
2:42:03 PM Col. Brandon Bowman
2:42:55 PM Senator Harrell
2:43:21 PM Col. Brandon Bowman
2:44:54 PM Senator Harrell
2:45:04 PM Col. Brandon Bowman
2:45:21 PM Chair Rodriguez
2:45:24 PM Senator Smith
2:47:10 PM Senator Harrell
2:48:43 PM Chair Rodriguez
2:49:41 PM Col. Brandon Bowman
2:49:49 PM Chair Rodriguez
2:49:58 PM Senator Smith moves to adjourn
2:50:02 PM Meeting adjourned