



WEBINAR HOUSEKEEPING

Attendee Participation

Open your control panel.

Join audio:

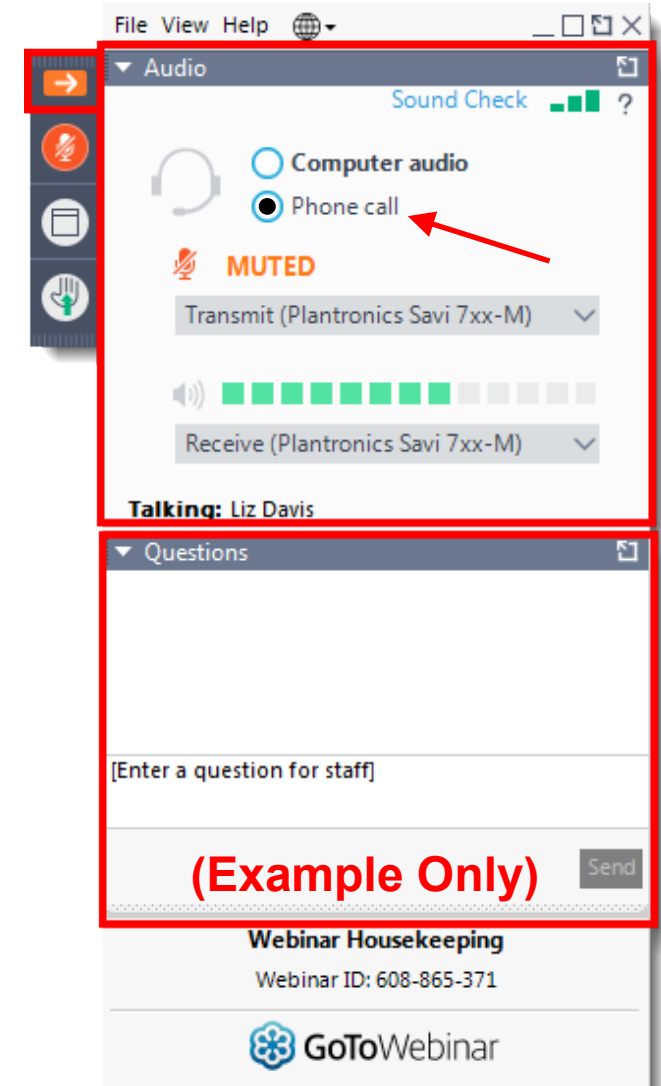
- Choose Computer Audio or
- Choose Phone Call and dial using the information provided with your registration.

Attendee audio will automatically be muted.

Submit questions and comments via the **Questions** panel.

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Note: Today's presentation is being recorded and will be provided on the file transfer protocol (FTP) site after the webinar.





LAKE OKEECHOBEE BASIN MANAGEMENT ACTION PLAN (BMAP) ANNUAL MEETING

Diana Turner

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection

GoToWebinar | April 4, 2024



LAKE OKEECHOBEE BMAP ANNUAL MEETING



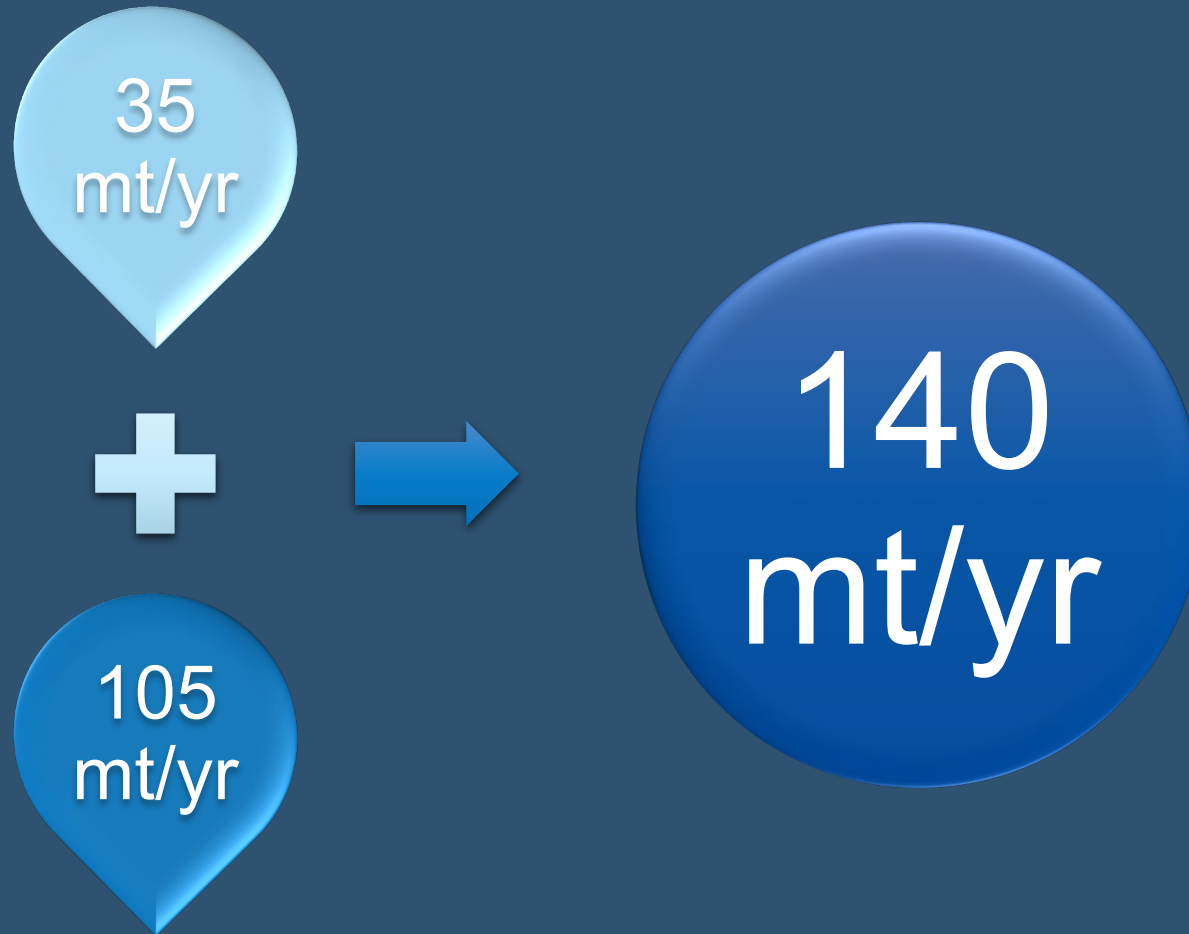
Photo Credit: SFWMD

Agenda:

- Background.
- South Florida Water Management District (SFWMD) Updates.
- Statewide Annual Report (STAR).
- Annual Progress.
- Upcoming 5-Year Review and BMAP Update.
- Florida Department of Agriculture and Consumer Services (DACS) Updates.



LAKE OKEECHOBEE TOTAL MAXIMUM DAILY LOAD BACKGROUND

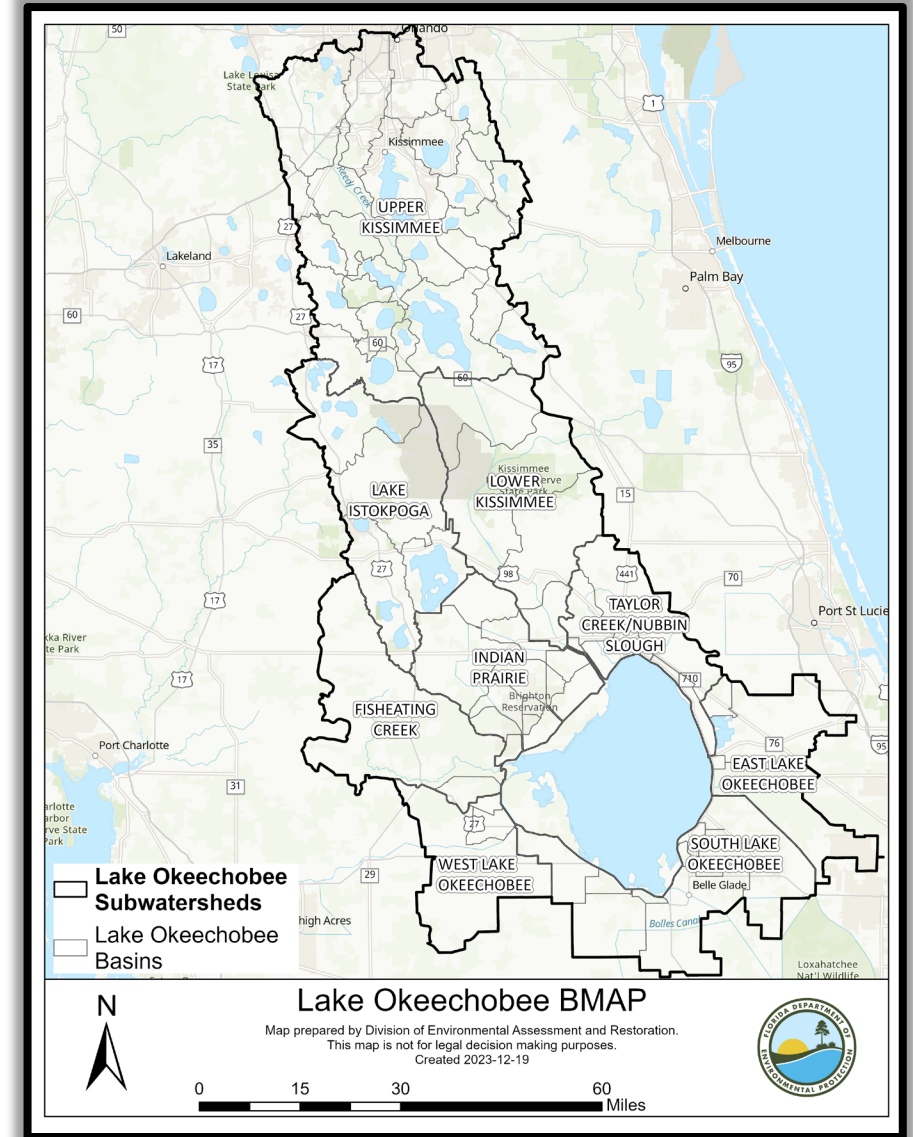


- Total maximum daily load (TMDL) for total phosphorus (TP) adopted in 2001.
- TMDL attainment calculated using a 5-year rolling average of the monthly loads calculated from measured flow and concentration values.
- mt/yr = metric tons per year.



LAKE OKEECHOBEE BMAP BACKGROUND

- Initially adopted in December 2014.
- First 5-year review completed December 2019.
- Updated BMAP adopted in February 2020.





STAKEHOLDERS

BACKGROUND

Counties

- Glades.
- Hendry.
- Highlands.
- Martin.
- Okeechobee.
- Orange.
- Osceola.
- Palm Beach.
- Polk.

Municipalities

- City of Avon Park.
- City of Clewiston.
- City of Edgewood.
- City of Kissimmee.
- City of Moore Haven.
- City of Okeechobee.
- City of Orlando.
- City of Sebring.
- Town of Lake Placid.
- Town of Windermere.

Government Entities and Special Districts

- Avon Park Air Force Range.
- Okeechobee Utility Authority.
- Central Florida Tourism Oversight District.
- Istokpoga Marsh Watershed Improvement District.
- Spring Lake Improvement District.
- South Florida Conservancy District.
- Valencia Water Control District.

State Agencies

- DACS.
- SFWMD.
- Florida Department of Transportation (FDOT) Districts 1, 4 and 5.



STORYMAP BACKGROUND

[Introduction](#)

[Overview](#)

[Location](#)

[Water Quality](#)

[Projects](#)

[Progress](#)

[Contacts & More Informatio...](#)

Introduction

Welcome to the Lake Okeechobee Basin Management Action Plan Story Map

A Basin Management Action Plan (BMAP) is a framework for water quality restoration, containing local and state commitments to reduce pollutant loading through current and future projects and strategies. BMAPs contain a comprehensive set of solutions, such as permit limits on wastewater facilities, urban and agricultural best management practices, and conservation programs designed to achieve pollutant reductions established by a Total Maximum Daily Load (TMDL).

These broad-based plans are developed with local stakeholders and rely on local input and commitment for development and successful implementation. BMAPs are



SFWMD Update

Lake Okeechobee Watershed Construction Project

Stacey Ollis, PMP
Principal State Policy Analyst
Everglades & Estuaries Protection Bureau
Lake Okeechobee BMAP Annual Meeting
April 4, 2024

Agenda

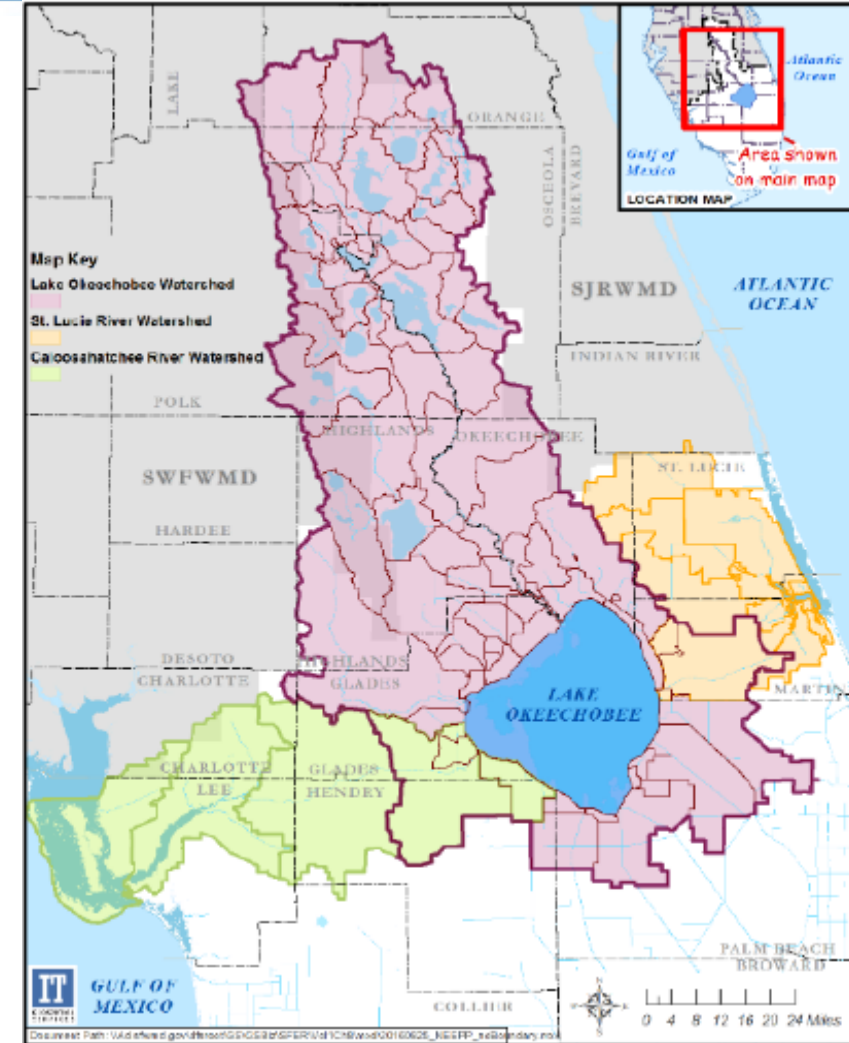


Great egret (*Ardea alba*),
at Lake Okeechobee

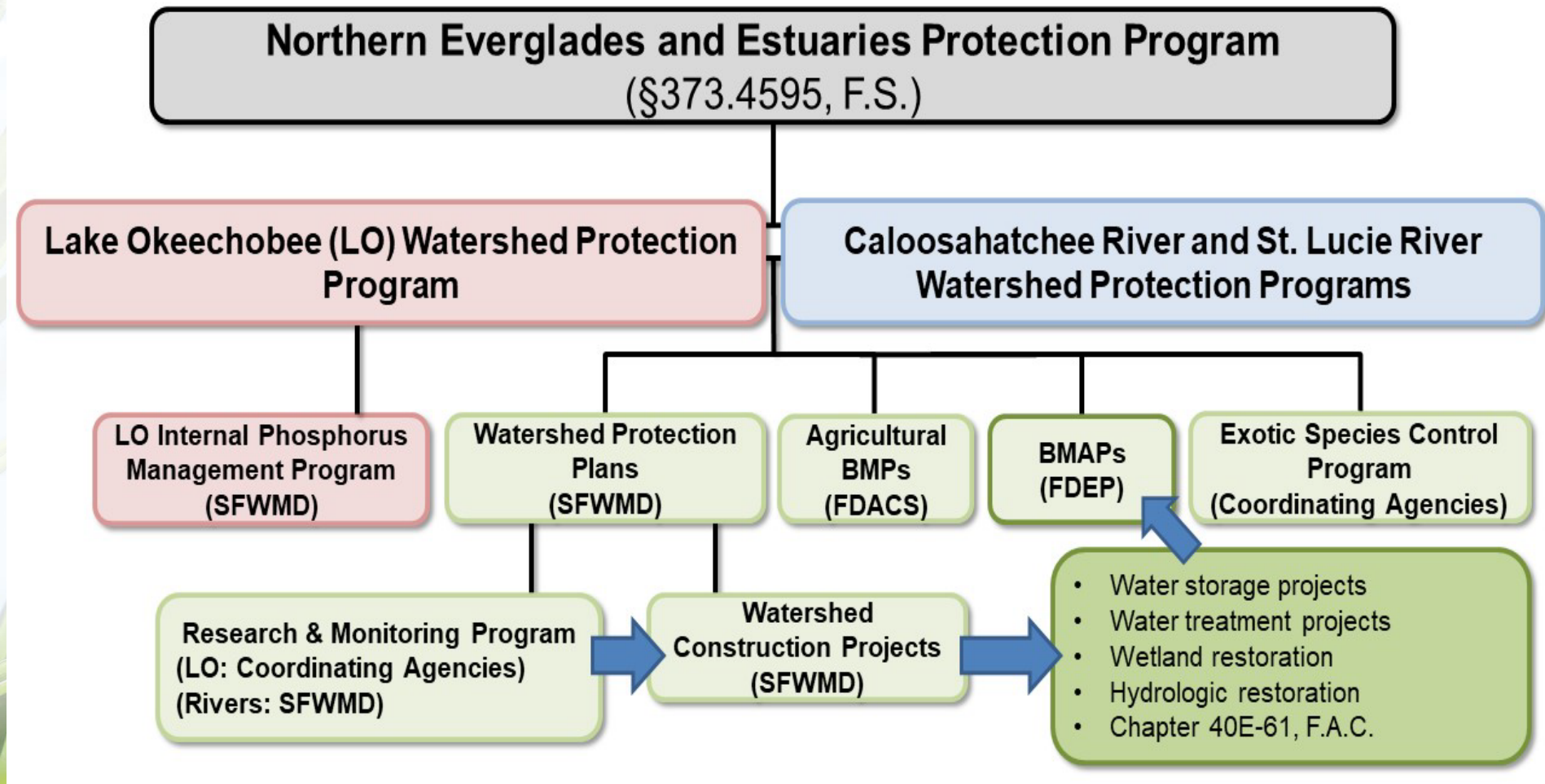
- Northern Everglades Program Overview
- 2023 Lake Okeechobee Watershed Construction Project Review
 - Project Spotlights
 - Water Storage Benefits
- Watershed Protection Plan Reporting

Northern Everglades and Estuaries Protection Program (NEEPP)

- Purpose: Protect and restore surface water resources by improving hydrology and water quality for the Northern Everglades ecosystem (§373.4595, Florida Statutes)
- Goal: Improve Water Quality
 - Lake Okeechobee: Total Phosphorus (TP)
 - Caloosahatchee Estuary: Total Nitrogen (TN)
 - St. Lucie Estuary: TP and TN
- Goal: Manage Water Quantity
 - Increase water storage north of Lake Okeechobee and in Caloosahatchee and St. Lucie River Watersheds



NEEPP: Coordinating Agencies Roles

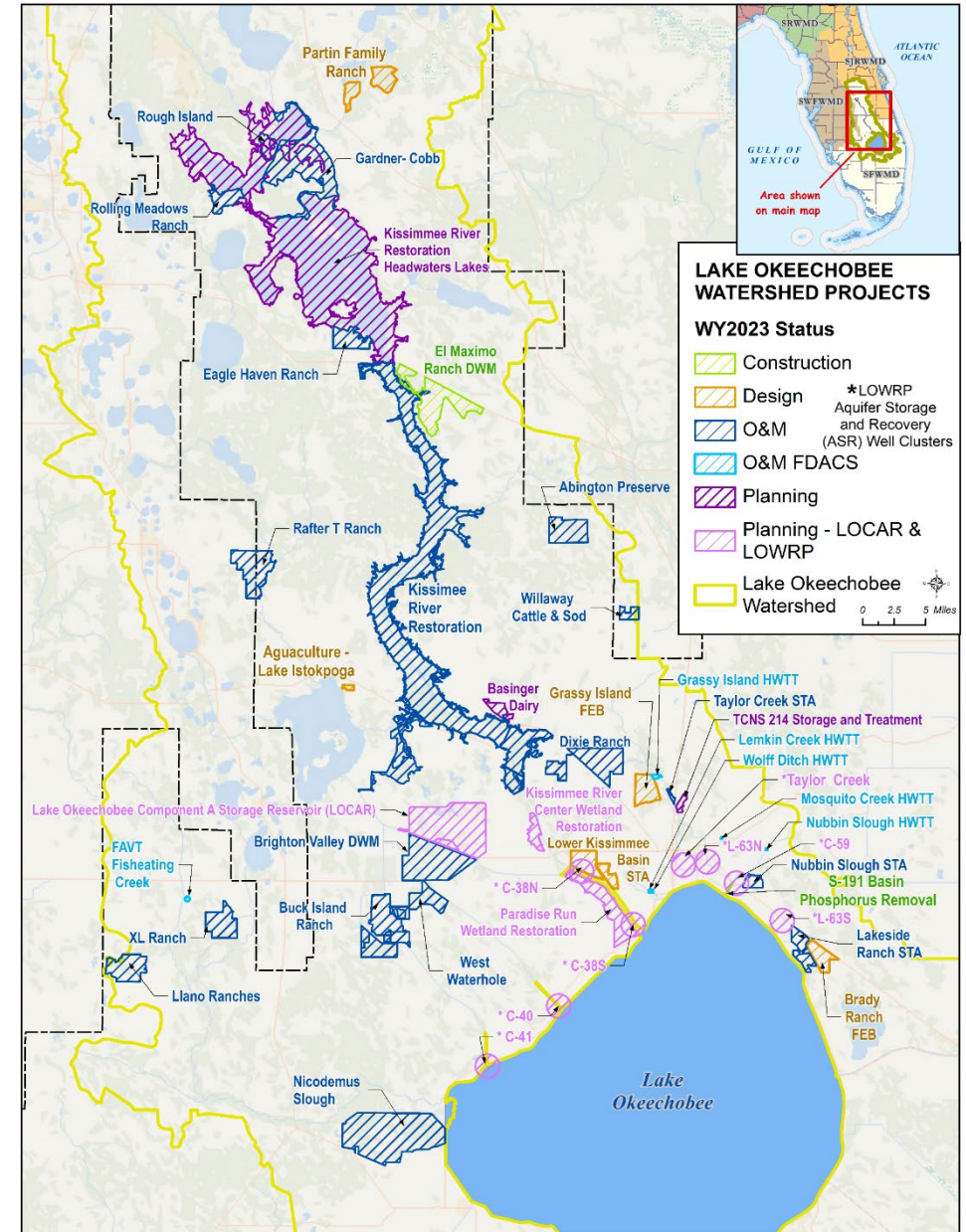


Lake Okeechobee Watershed Construction Project Review

- In 2020, SFWMD initiated annual Lake Okeechobee Watershed Construction Project (LOWCP) reviews, as part of the Watershed Protection Plan (WPP) reviews
- Annual reviews are important to:
 - Maintain transparency and accountability in BMAP process
 - Assist to progressively move toward achieving state's TMDLs
 - Develop and update WPPs required every five years
 - Consolidate into NEEPP annual progress reporting (South Florida Environmental Report, or SFER) per §373.4595(6), F.S.
- Focus: 2023 LOWCP Review
 - Key accomplishments during Fiscal Year (FY) 2023 (Oct. 1, 2022–Sept. 30, 2023)
 - Final 2024 SFER – Volume I, Chapter 8B (March 1, 2024) at [SFWMD.gov/SFER](https://sfwmd.gov/SFER)

SFWMD Projects

- FY2023 LOWCP Status:
- 3 projects – planning
 - 5 projects – design
 - 2 projects – construction
 - 18 projects – operations



Project Spotlights

- Kissimmee River Restoration Project & Headwater Lakes Regulation Schedule
- El Maximo Ranch
- Lower Kissimmee Basin Stormwater Treatment Area (STA)
- Grassy Island and Brady Ranch Flow Equalization Basins (FEBs)
- New Northern Everglades Water Retention and Nutrient Load Reduction Projects





US Army Corps
of Engineers®

Kissimmee River Restoration Project

CONSTRUCTION COMPLETION

- Ribbon Cutting Ceremony July 2021
- 44 miles of historic river channel natural flow reestablished/open to public access

KISSIMMEE HEADWATERS REVITALIZATION REGULATION SCHEDULE

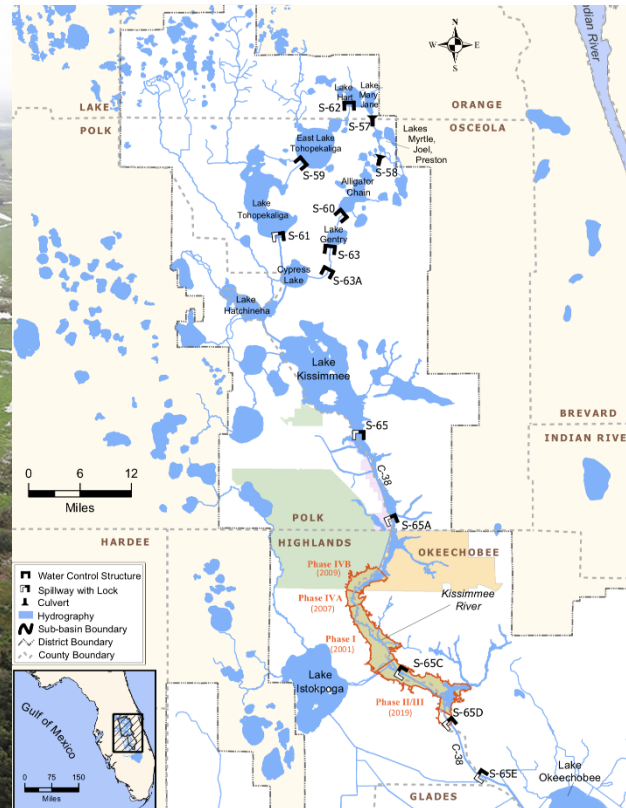
- Incremental Implementation (2023-2026)

EVALUATION MONITORING

- 5-Year Post-Restoration Monitoring Period (2027-2031)



Phase II Restoration Area looking southeast downstream Riverwoods Run and floodplain

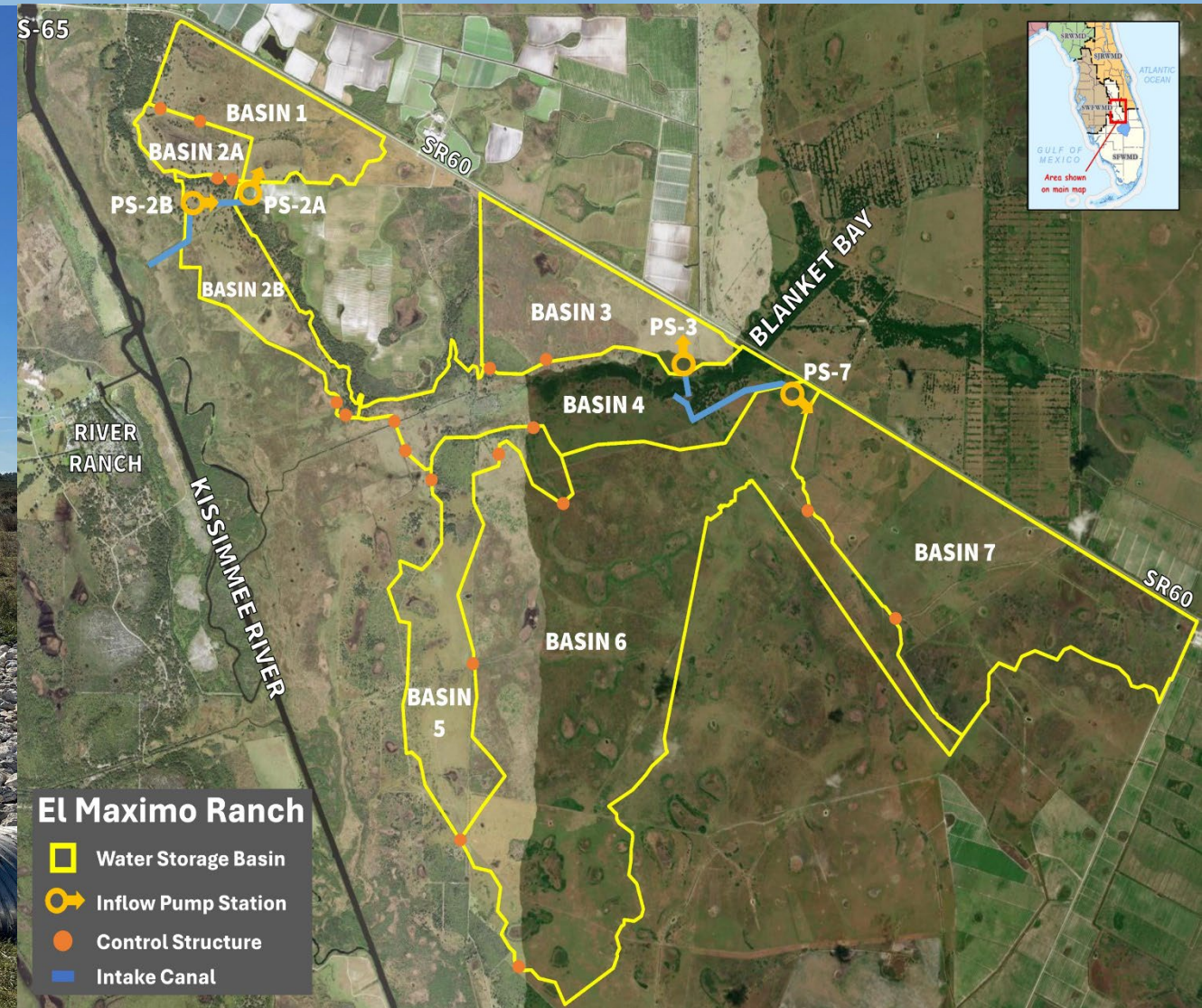


Photographs by Brent Anderson
SFWMD, August 2021

S-69 Weir and Phase III
Restoration Area looking upstream

El Maximo Ranch

El Maximo Ranch
under construction (Jan'2024)

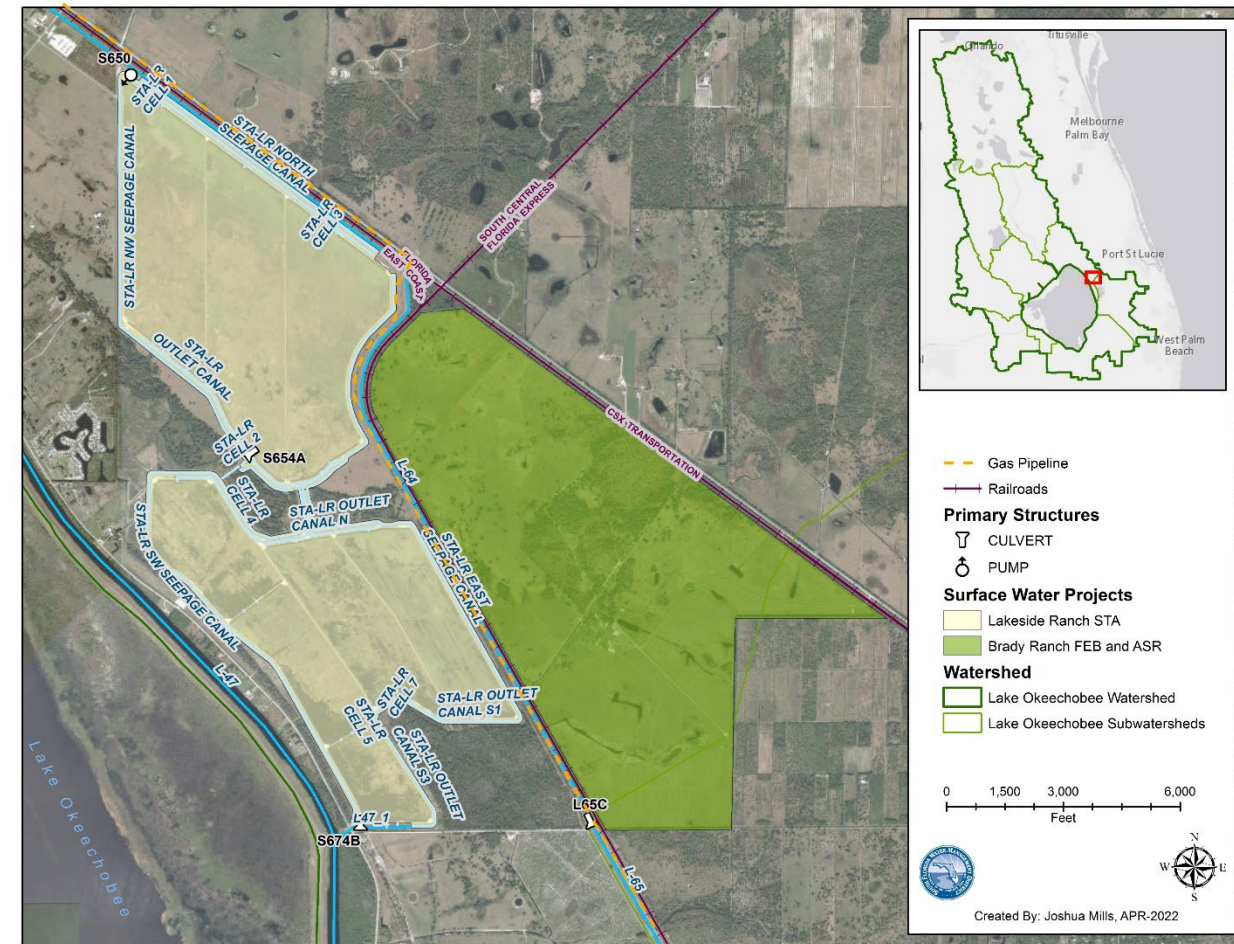
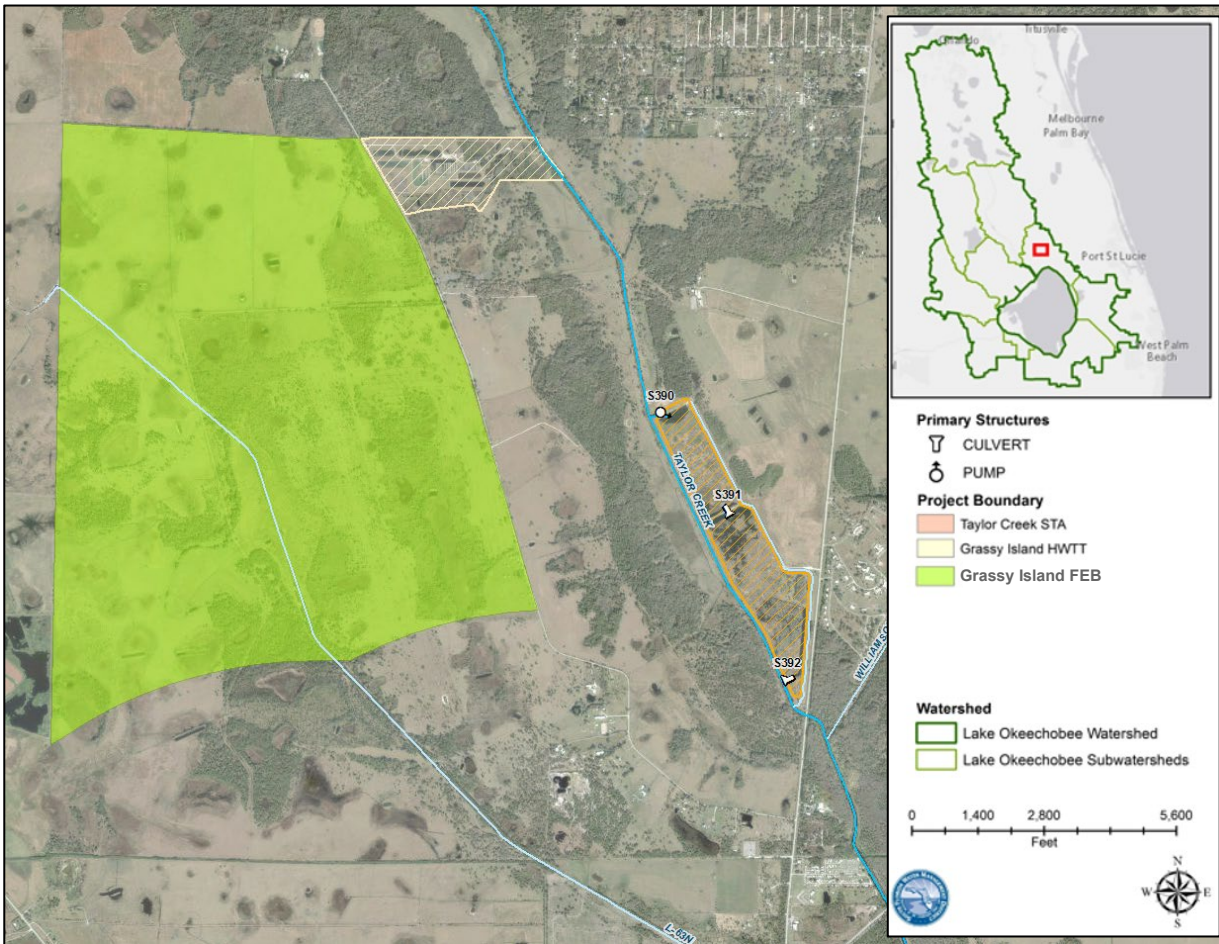




sfwmd.gov

Grassy Island FEB

Brady Ranch FEB



Northern Everglades Water Retention and Nutrient Load Reduction Projects

Eagle Haven Ranch (formerly Lost Oak Ranch)

- 730-acre passive storage on private ranchland
- WY2023 benefits:
 - Stored 758 ac-ft
 - Removed 0.1 mt TP
 - Removed 1.2 mt TN



Buck Island Ranch (includes Components 1 & 2)

- 4,796-acre passive storage on private ranchland
- WY2023 benefits:
 - Stored 2,204 ac-ft
 - Removed 0.9 mt TP
 - Removed 9.1 mt TN



XL Ranch (formerly Lightsey)

- 765-acre passive storage on private ranchland
- WY2023 benefits:
 - Stored 1,720 ac-ft
 - Removed 0.5 mt TP
 - Removed 3.9 mt TN



Dixie Ranch (includes Dixie West)

- 3,063-acre passive storage on private ranchland
- WY2023 benefits:
 - Stored 632 ac-ft
 - Removed 0.4 mt TP
 - Removed 1.3 mt TN

Northern Everglades Water Retention and Nutrient Load Reduction Projects (cont.)

Aquaculture Nutrient Removal

- Project will divert and retain TP from Lake Istokpoga to reduce nutrient loads to Lake Okeechobee.
 - Mechanical harvesting of nuisance vegetation and unconsolidated muck from Lake Istokpoga
 - To be applied as a nutrient amendment on private lands
- Estimated benefits (per year):
 - 4.5 mt TP removal
 - Pay-for-performance basis



Planned aquatic vegetation removal

Partin Family Ranch



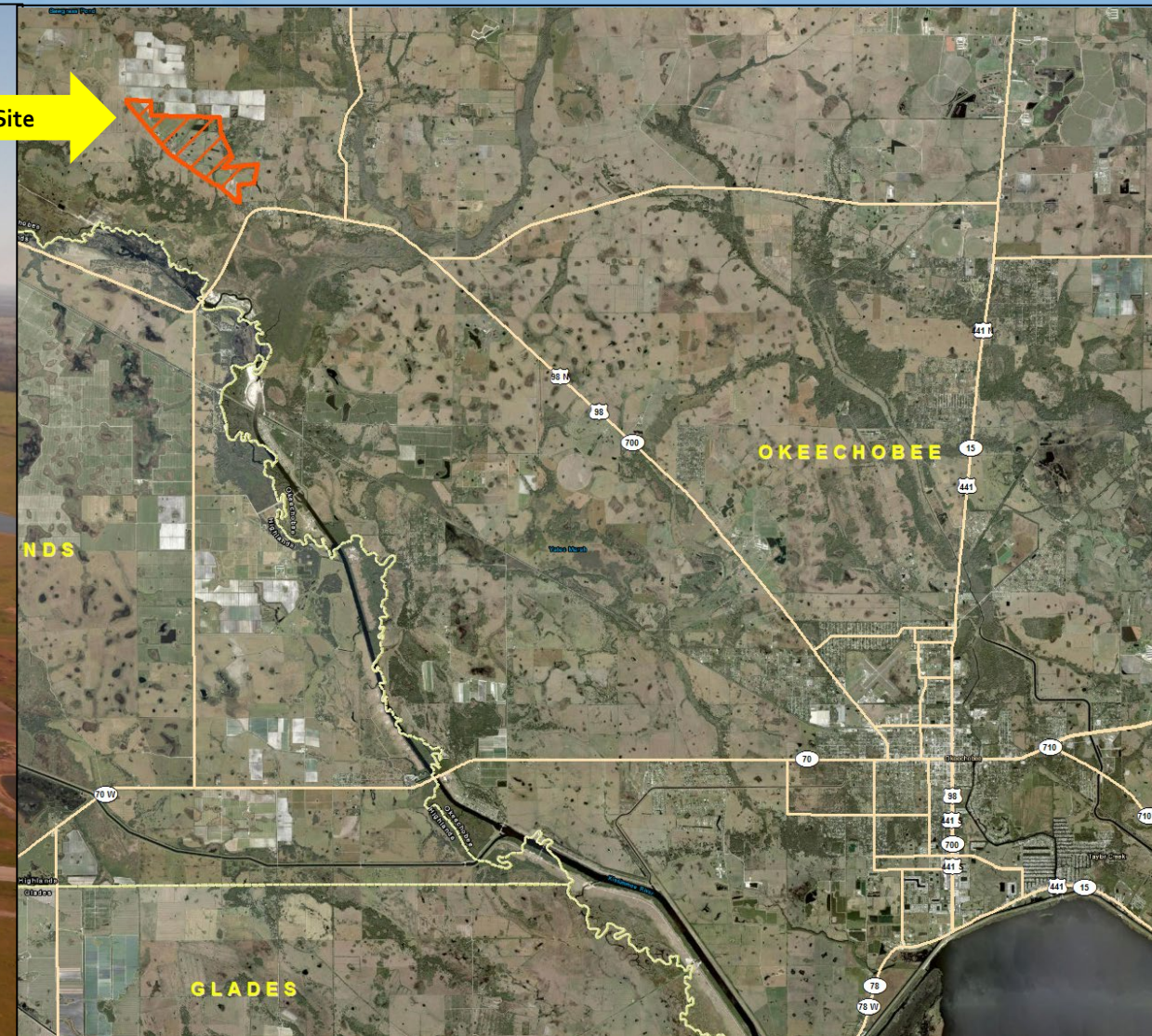
Big Bend Swamp retention area (Feb'2024)

- Water and nutrient retention project
 - 3,050 acres on private land in Osceola County
- Estimated benefits (per year):
 - 4,270 ac-ft storage
 - 0.4 mt TP removal
 - 5.2 mt TN removal

Basinger Dairy Legacy Phosphorus Project



Project Site



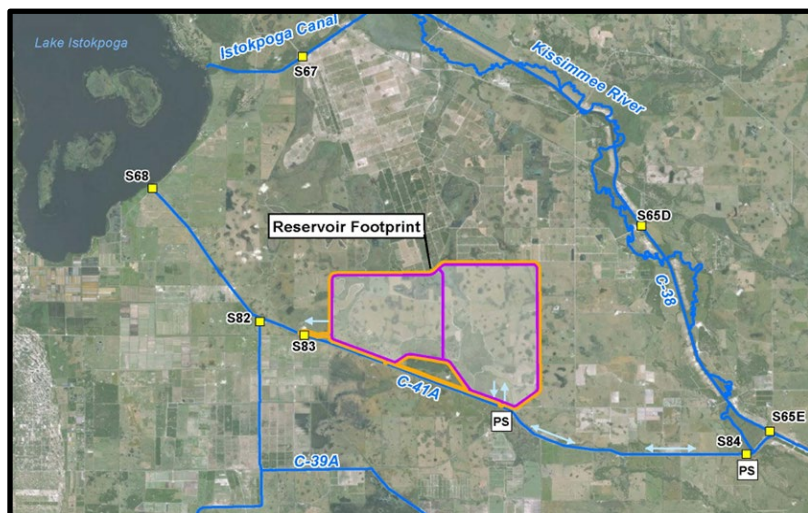


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LOW CERP Projects

North of Lake Okeechobee Storage Reservoir Study (LOCAR)

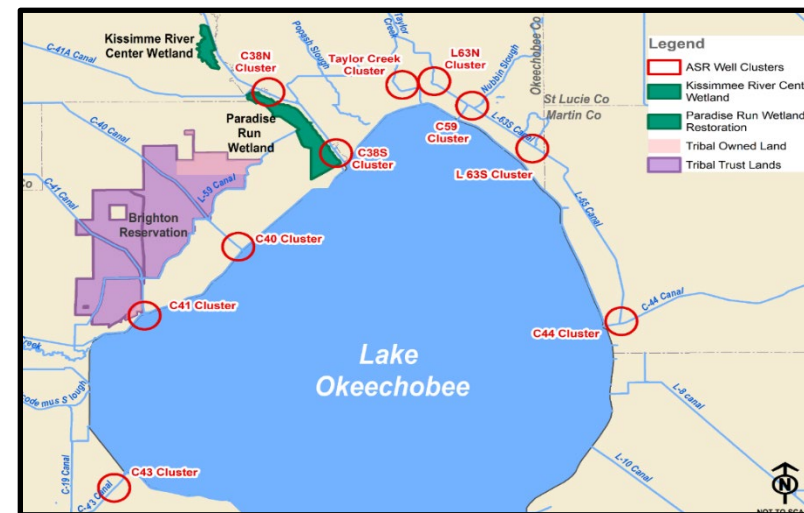
- Primary objective is to store water north of Lake Okeechobee and release excess water at times when it is beneficial for region
 - 12,000 acres - 2 cells with an average depth of 18 ft
- Expected benefits:
 - 200,000 ac-ft storage
 - Operational flexibility and improve lake ecology



SFWMD.gov/LOCAR

Lake Okeechobee Watershed Restoration Project (LOWRP)

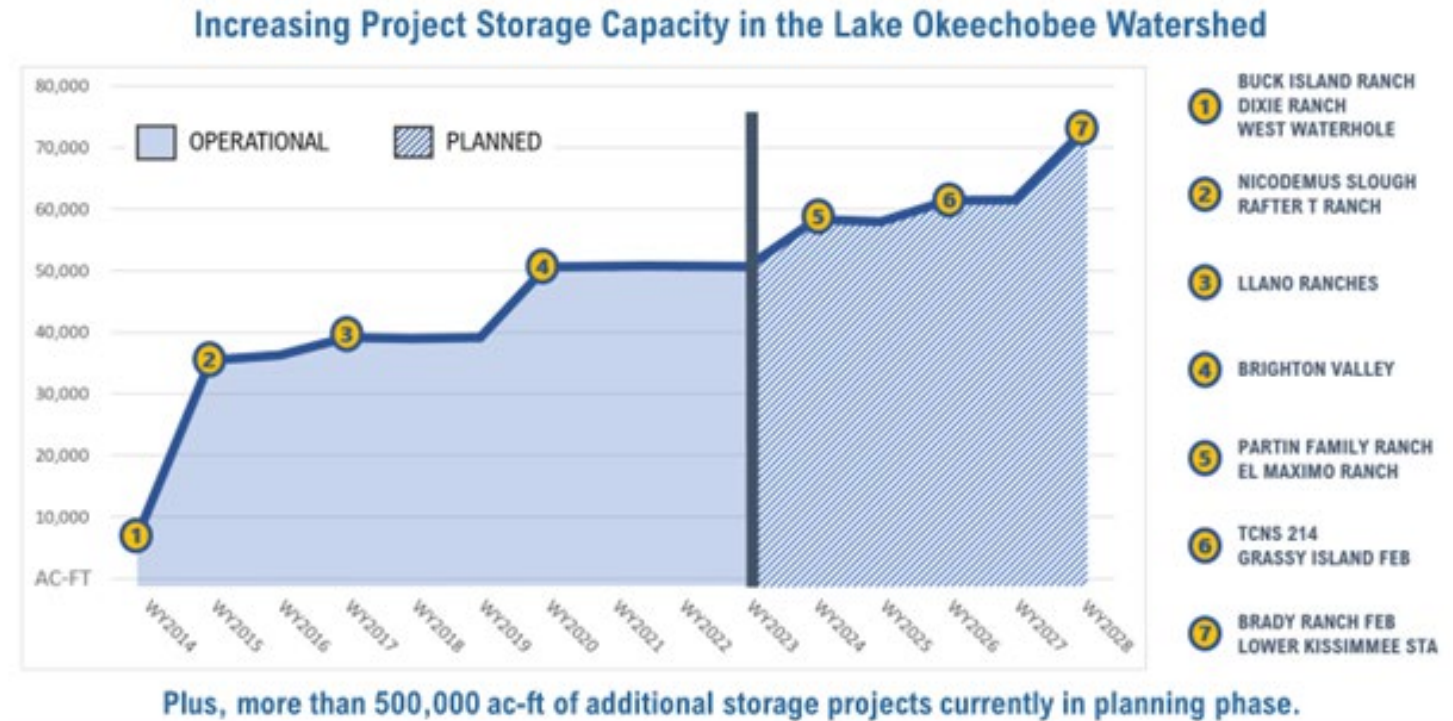
- Recommended Plan in 2022: 2 wetland restoration areas; up to 55 Aquifer Storage & Recovery (ASR) wells
- Expected benefits:
 - Restore 5,900 acres of wetland habitat
 - Improve lake stage levels
 - Reduce discharges to northern estuaries



SFWMD.gov/LOWRP

Water Storage Benefits

- Key DWM program benefits:
 - Reduces runoff/discharge to and stores/treats water in regional system
 - Promotes hydrologic enhancement, groundwater recharge, improves habitat
 - Avoids high cost of land purchase and keeps private lands on local tax rolls
 - Storage and/or treatment provided exceeds permit requirements
- In Water Year 2023, 18 SFWMD projects provided ~66,806 ac-ft of storage (59,531 ac-ft, 14 DWM; 7,275 ac-ft, 4 regional)
- Future projects are planned to add storage capacity of 23,070 ac-ft over the next 5 years; more than 500,000 ac-ft is also in longer-term planning



Watershed Protection Plan Reporting

For more information, visit:

[SFWMD.gov/WPPs](https://sfwmd.gov/WPPs)

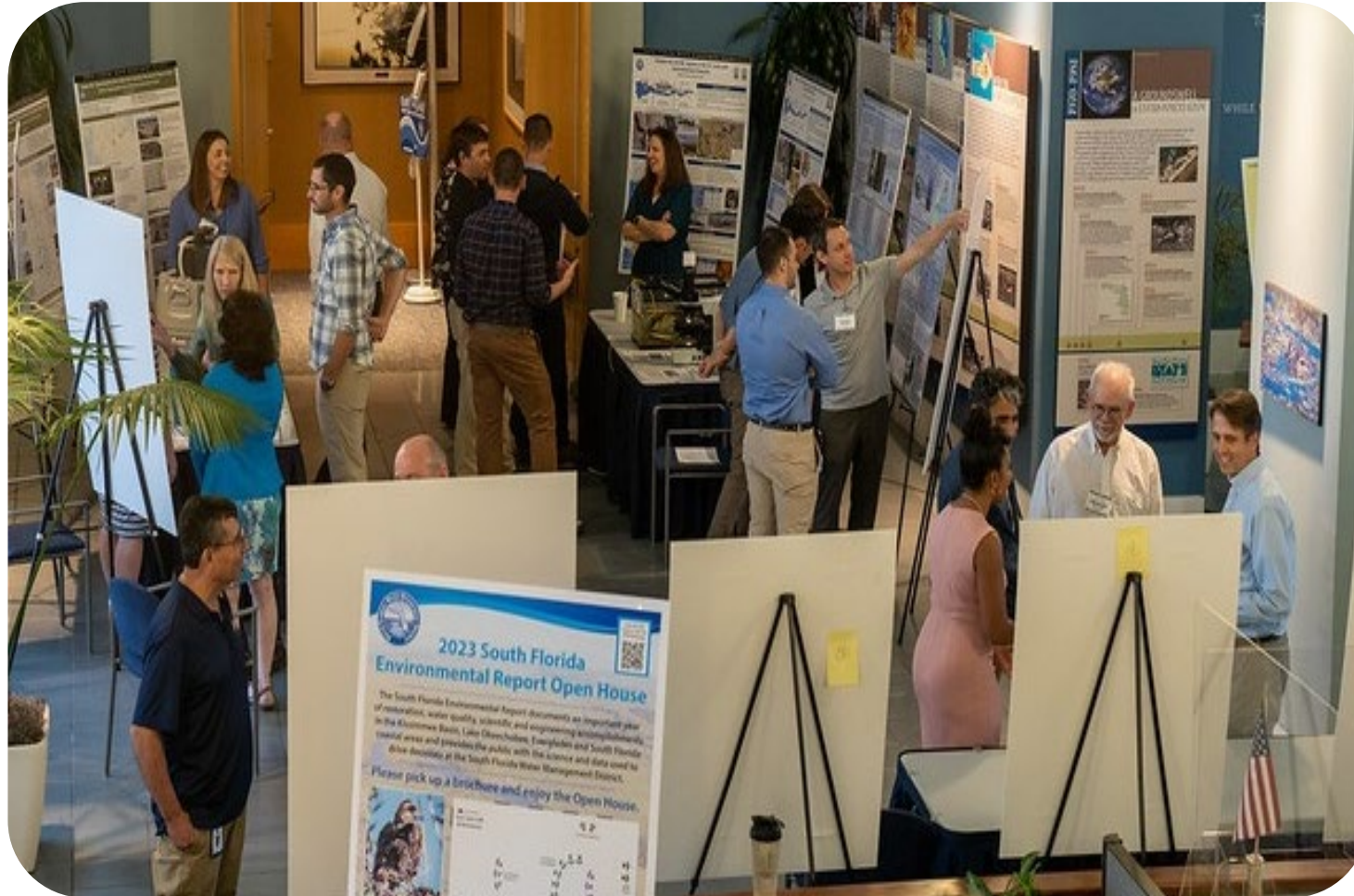
and

[SFWMD.gov/SFER](https://sfwmd.gov/SFER)

(Final 2024 SFER –
Volume I, Chapter 8B)



Mark Your Calendars



2024 SFER Open House Poster Sessions

April 10 & 11, 2024 at 1 pm

SFWMD Headquarters

B-1 Auditorium & Lobby

3301 Gun Club Road

West Palm Beach, FL

For more information, visit:

[SFWMD.gov/news-events/meetings](https://www.sfwmd.gov/news-events/meetings)



Contact Information

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sfwmd.gov



STAR

STATEWIDE ANNUAL REPORT

The Statewide Annual Report 2022

The state of Florida is prioritizing the protection and restoration of our waterways by implementing sound, science-based solutions to current and future environmental challenges. Under the leadership of Governor Ron DeSantis, the Florida Department of Environmental Protection (DEP) is working with local, state and federal partners on short- and long-term strategies to protect water quality and quantity, including investment in long-term restoration projects. DEP has prepared the 2022 Statewide Annual Report (STAR) to detail the status of many of these strategies in an interactive application format, which is best viewed on a desktop computer screen using Google Chrome or Microsoft Edge.

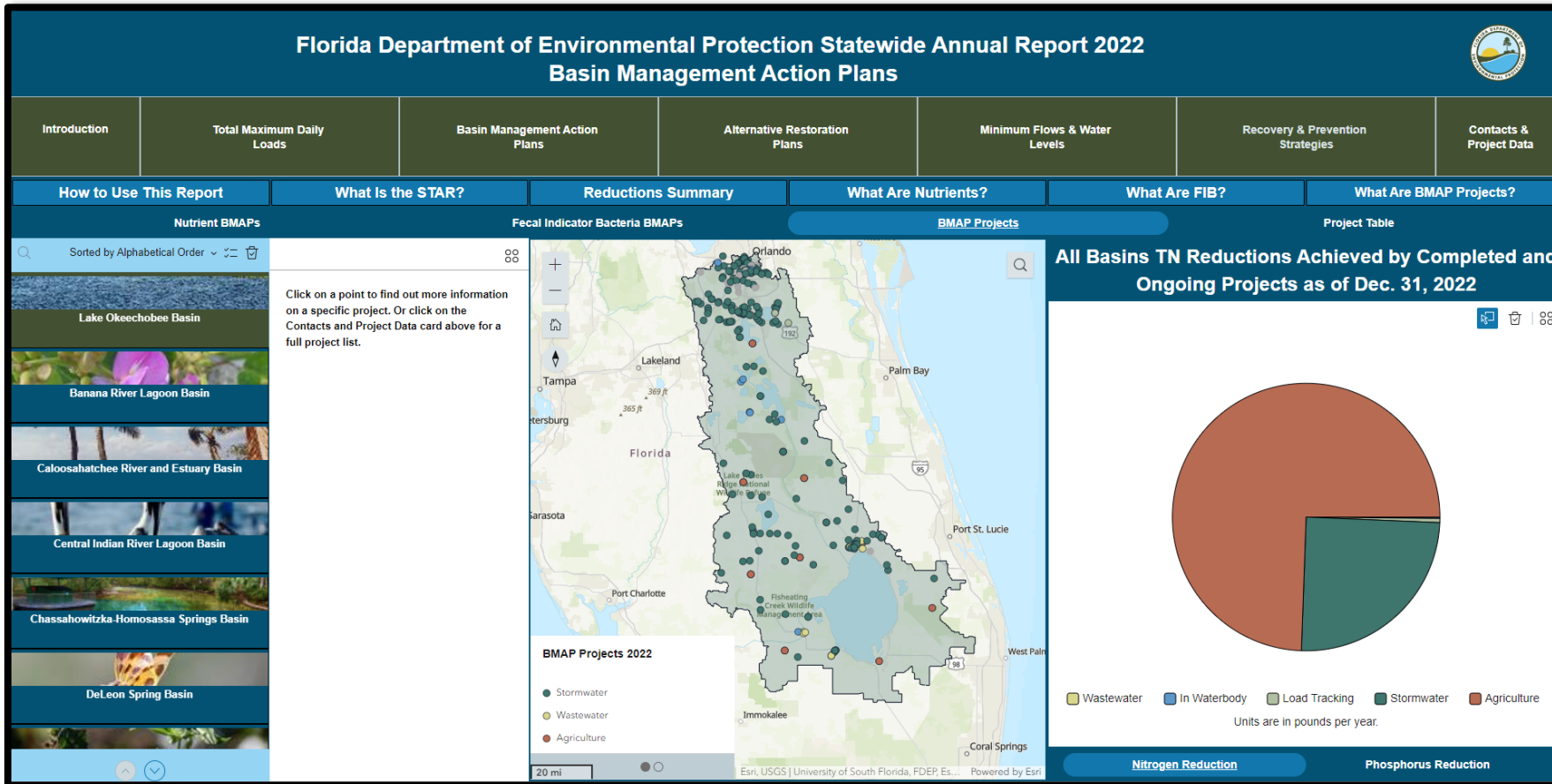
As required by section 403.0675, Florida Statutes, and to report on additional restoration efforts, this report updates the status of protection and restoration actions through total



Total Maximum Daily Loads	Basin Management Action Plans	Alternative Restoration Plans	Minimum Flows and Water Levels	Recovery and Prevention Strategies	Contacts and Project Data
					



STAR STATEWIDE ANNUAL REPORT



- Report published by July 1, 2024, with reporting through Dec. 31, 2023.
- Summarizes accomplishments in the BMAPs statewide.
- Reports on restoration projects and management strategies.
- Data download available.



- Be sure to let your BMAP coordinator know if changes in access to your projects in the portal are needed.



DEP BUSINESS PORTAL

DEAR RESTORATION PROJECT COLLECTION PORTAL

Division of Environmental Assessment and Restoration

Workflow ▾

Welcome, **Alex Smith** [Roles : Entity]
 Your Session will time out in **060** minutes. Sign Out

Project Workbook

[Home](#) > [Workflow](#) > [Project Workbook](#)

Search Criteria +

Updates Complete? ⓘ
-

Lead Entity:

Please select ▾

BMAP ID:
 None selected ▾

Clicking this button certifies by the entity that ALL project updates through this reporting period (ending December 31st) are complete. This means: all updates to be processed for this reporting period have been submitted for coordinator review; the entity has reviewed ongoing status projects; and/or the entity assures that no changes are necessary to existing projects which are not submitted for coordinator review.

Exports +

Search Results

Column width can be adjusted with a tool that will appear if you hover over a column line in the table heading. Sorting arrows will appear in most columns if the column width is expanded.

Project Workbooks List													
☐	User Action Icons	Review Stage ▾	STAR Year ▾	Saved But Not Submitted ▾	BMAP ID ▾	Project ID ▾	Lead Entity ▾	Project Number ▾	Project Name ▾	Project Type Category ▾	Project Type ▾	Project Status ▾	Estimate Completion Date ▾
		x	x	x	x	x	x	x	x	x	x	x	x
☐		Coordinator Verification /Validation Approved	2023		OKEE	3654	SFWM	SFWM-04	Otter Slough Restoration	Stormwater	Hydrologic Restoration	Completed	2009
☐		Coordinator Verification /Validation Approved	2023		OKEE	3630	SFWM	SFWM-10	West Waterhole	Stormwater	Dispersed Water Management (DWM)	Completed	2009
☐		Coordinator	2023		OKEE	3655	SFWM	SFWM-05	Otter Slough Restoration	Stormwater	Hydrologic Restoration	Completed	2009



STATUS OF PROJECTS

THROUGH DEC. 31, 2023 **PRELIMINARY*

Lead Entity	Canceled	Completed	Ongoing	Planned	Underway	Grand Total
Avon Park Air Force Range	0	1	0	0	0	1
City of Avon Park	0	2	1	0	0	3
City of Clewiston	0	2	3	0	0	5
City of Edgewood	0	0	3	0	0	3
City of Kissimmee	0	5	2	2	0	9
City of Moore Haven	0	1	0	1	0	2
City of Okeechobee	0	3	3	0	2	8
City of Orlando	1	7	10	1	1	20
City of Sebring	0	1	1	0	0	2
Coordinating Agency	1	0	0	0	0	1
FDACS	0	7	18	0	0	25
FDOT District 1	0	2	6	1	1	10
FDOT District 4	0	1	5	0	0	6
FDOT District 5	0	35	2	0	0	37
Glades County	0	3	2	0	3	8
Hendry County	0	0	0	3	1	4
Highlands County	0	3	4	0		7
Istokpoga Marsh Watershed Improvement District	0	1	0	0	1	2



STATUS OF PROJECTS

THROUGH DEC. 31, 2023 **PRELIMINARY*

Lead Entity	Canceled	Completed	Ongoing	Planned	Underway	Grand Total
Martin County	0	0	0	0	1	1
Okeechobee County	0	8	0	0	0	8
Orange County	4	63	8	2	20	97
Osceola County	2	30	3	0	0	35
Polk County	0	1	3	0	0	4
SFWMD	0	22	0	1	0	23
Spring Lake Improvement District	1	1	0	0	0	2
Town of Windermere	0	1	0	0	0	1
Valencia WCD	0	1	1	0	0	2
SFWMD - Coordinating Agency	1	8	0	8	2	19
FDACS - Coordinating Agency	0	4	0	4	1	9
Okeechobee Utility Authority	0	0	0	1	2	3
Town of Lake Placid	0	0	0	0	1	1
Central Florida Tourism Oversight District	0	0	3	0	0	3
Turnpike Enterprise	0	0	1	0	0	1
Grand Total	10	213	79	24	36	362



SUBWATERSHED GOALS

TARGETS SUMMARY

Subwatershed	WY2014– WY2018 TP Load (mt/yr)	% Contribution of Load	TP Load Required Reduction (mt/yr)	TP Target (mt/yr)	WY2019– WY2023 TP Load (mt/yr)	% Contribution of Load	TP Load Required Reduction (mt/yr)	TP Target (mt/yr)
Fisheating Creek	72.4	12	59.7	12.7	39.70	10.8	28.3	11.4
Indian Prairie	102.5	17	84.5	18.0	48.10	13.1	34.3	13.8
Lake Istokpoga	47.7	8	39.3	8.4	34.50	9.4	24.6	9.9
Lower Kissimmee	125.9	21	103.8	22.1	80.00	21.8	57.1	22.9
Taylor Creek/Nubbin Slough	113.6	19	93.7	19.9	58.20	15.8	41.6	16.6
Upper Kissimmee	90.5	15	74.6	15.9	79.80	21.7	57.0	22.8
East Lake Okeechobee	16.8	3	13.9	2.9	15.40	4.2	11.0	4.4
South Lake Okeechobee	29.0	5	23.9	5.1	11.50	3.1	8.2	3.3
West Lake Okeechobee	0.0	0	0	0.0	0.00	0.0	0.0	0.0
Total	598.4	100	493.4	105.0	367.2	100.0	262.2	105.0



SUBWATERSHED GOALS

PROGRESS **PRELIMINARY*

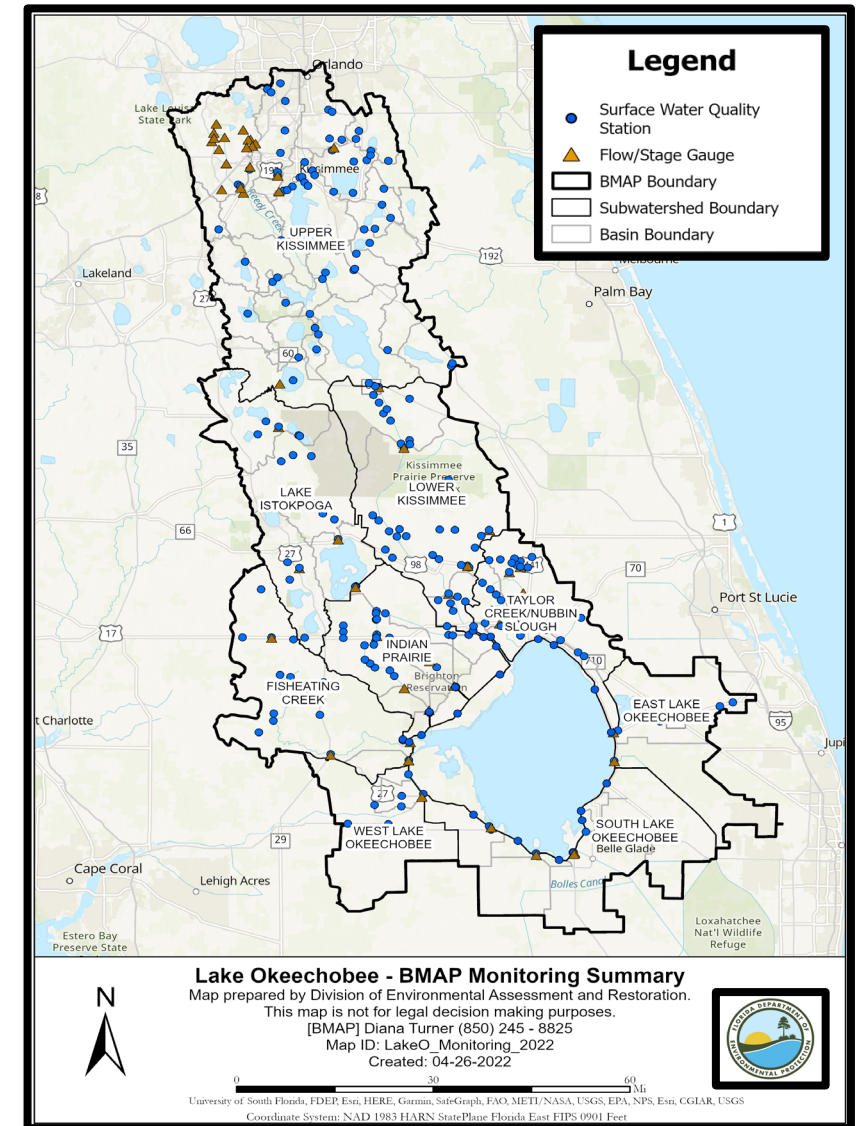
Subwatershed	TP Load Required Reduction (mt/yr)	TP Reduction Through Dec. 31, 2023 (mt/yr)	TP Reductions Achieved Through Dec. 31, 2023 (%)
Fisheating Creek	28.3	15.4	54%
Indian Prairie	34.3	22.7	66%
Lake Istokpoga	24.6	2.7	11%
Lower Kissimmee	57.1	13.5	24%
Taylor Creek/Nubbin Slough	41.6	32.3	78%
Upper Kissimmee	57.0	18.2	32%
East Lake Okeechobee	11.0	2.3	21%
South Lake Okeechobee	8.2	3.0	37%
West Lake Okeechobee	0.0	0.6	100%
Total	262.2	110.7	42%



MONITORING NETWORK

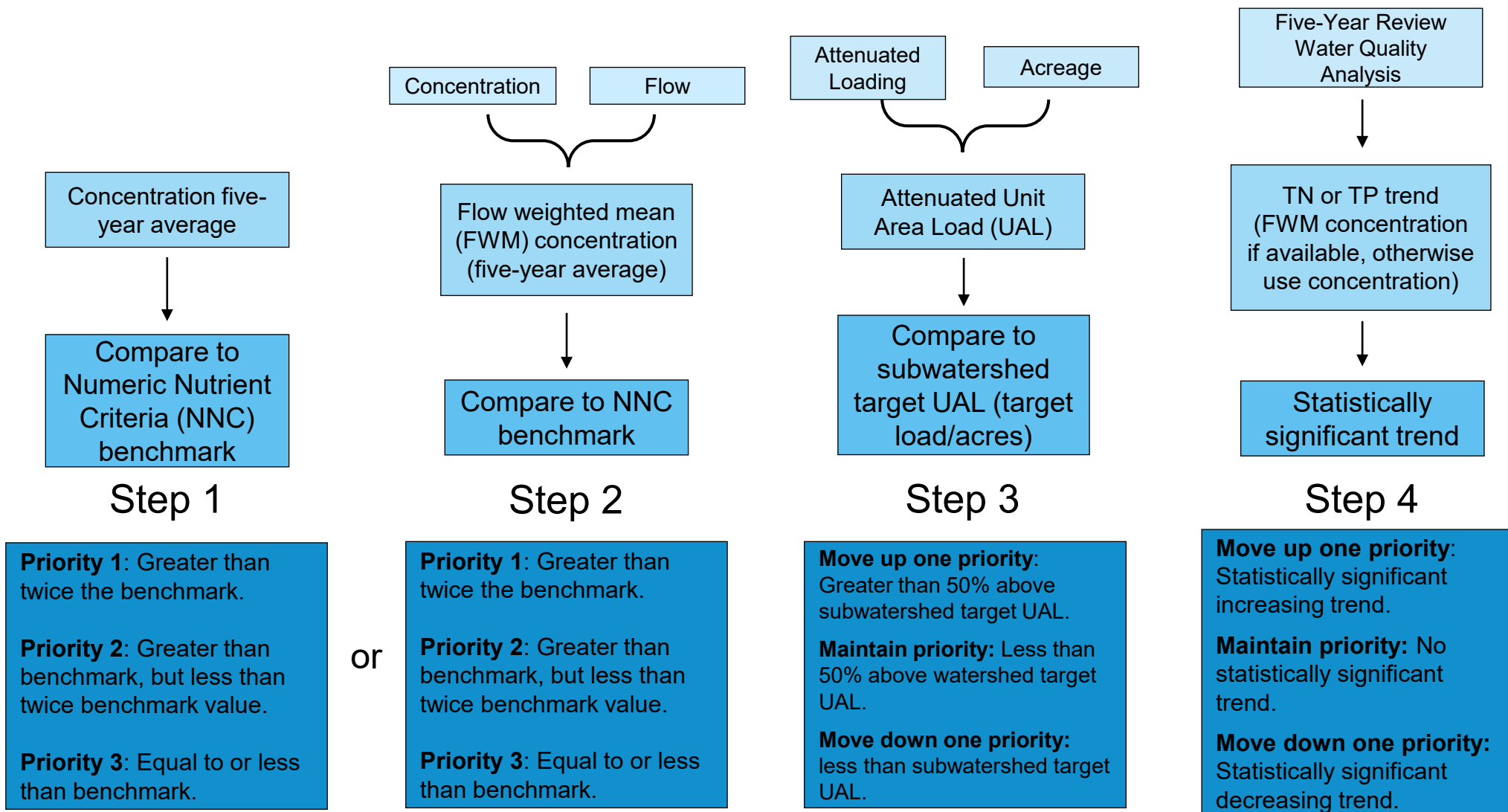
BMAP-WIDE

- 309 stations.
- 3-tiered network.
- Monitored by local entities, DEP, SFWMD, and U.S. Geological Survey (USGS).



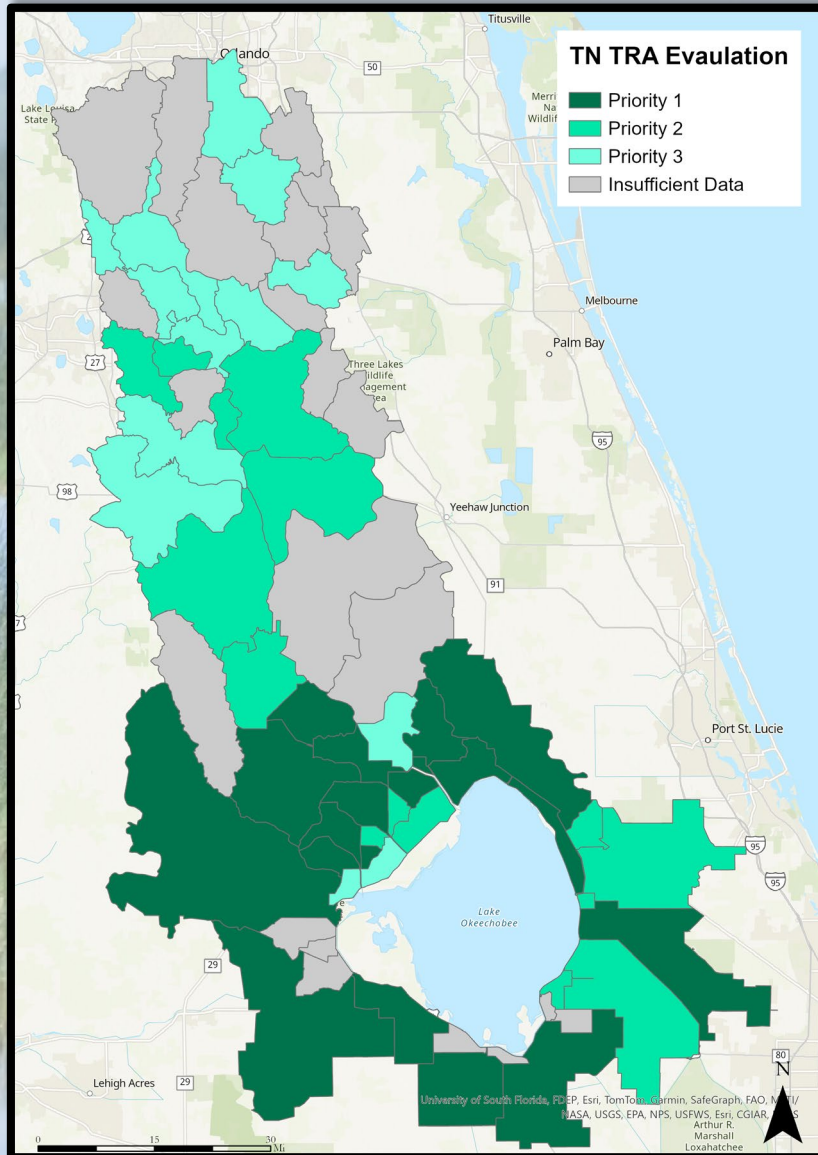


TARGETED RESTORATION AREA (TRA) EVALUATION UPDATE APPROACH





TRA EVALUATION UPDATE RESULTS





WHAT'S NEXT FOR THE BMAP?

- **2024 5-Year Review to be published in December 2024.**
- **BMAP Update to be completed by July 1, 2025.**





2024 5-YEAR REVIEW



Photo Credit: SFWMD

The Northern Everglades and Estuaries Protection Plan BMAPs (St. Lucie, Caloosahatchee, Lake Okeechobee) are required to provide a review every five years on the progress the BMAP is making (paragraph 373.4595(4)(d), Florida Statutes).



2024 5-YEAR REVIEW COMPONENTS

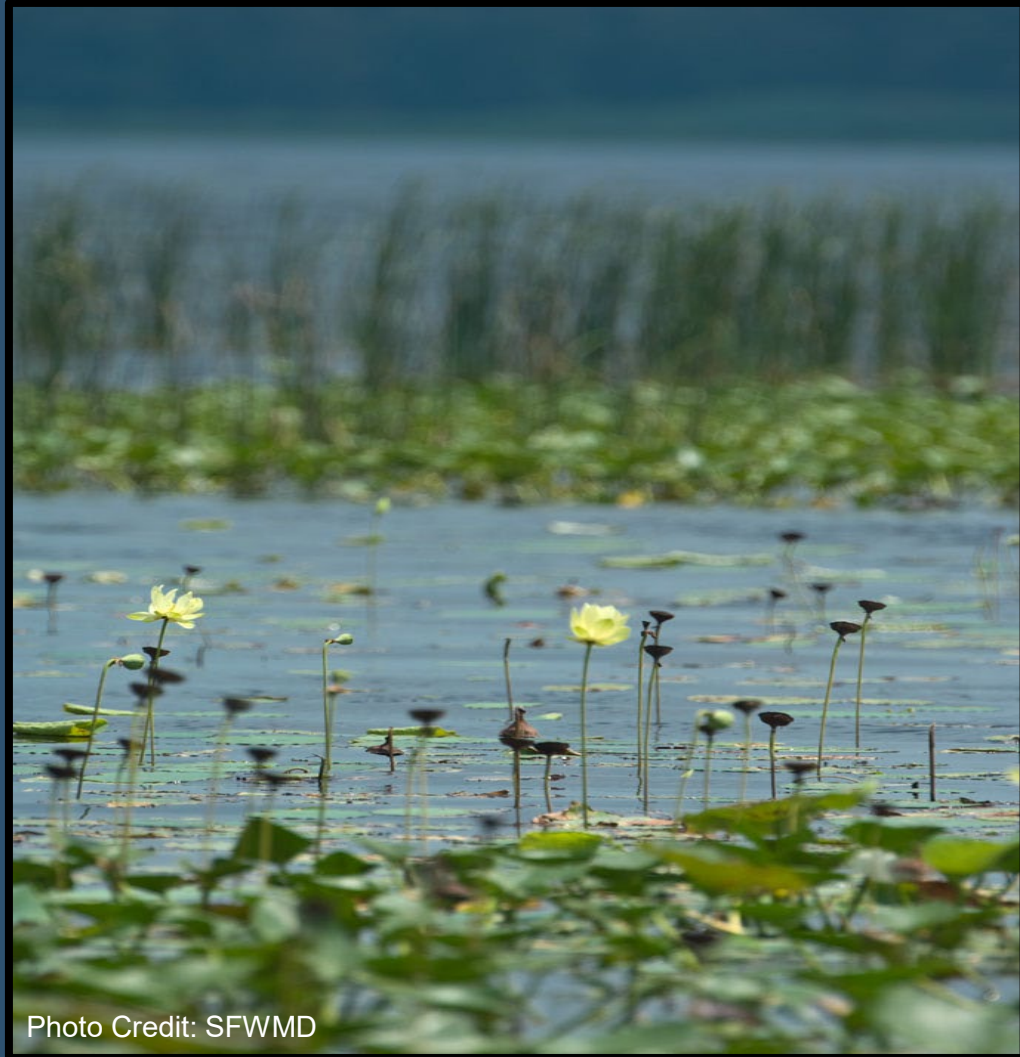


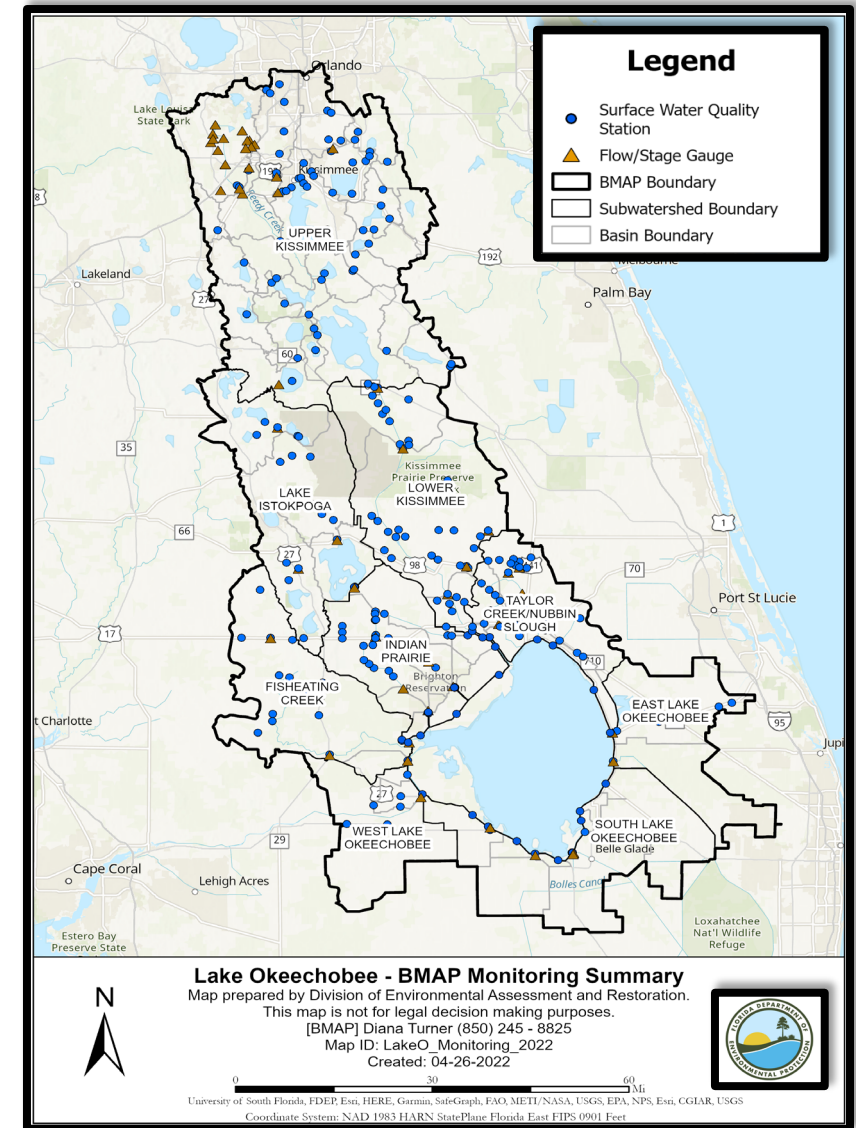
Photo Credit: SFWMD

- Water quality analyses.
 - TRA evaluation.
 - Trend analyses.
 - Hot spot analysis.
- Evaluating milestones.
- Evaluating monitoring network.
- Evaluating model needs.
- Coordinating agencies' updates.
- Making recommendations for BMAP Update.



UPCOMING BMAP UPDATE COMPONENTS

- Evaluation of wastewater effluent limits.
- OSTDS requirements for new systems on lots one acre or less.
- Inclusion of regional projects.
- Inclusion of a hot spot analysis.
- Inclusion of additional water quality analyses.
- Inclusion of any needed updates to the monitoring network.
- Inclusion of the Clean Waterways Act requirements.
- Inclusion of recommendations from the 2024 5-Year Review.





HOT SPOT ANALYSIS DEVELOPMENT

OVERVIEW

Purpose:

- To find more specific areas to focus restoration activities.
- To highlight areas where projects might have stronger results.
- To highlight areas where more investigation is needed.

Analysis is NOT to determine BMAP or TMDL compliance.

Compliment to the TRA Evaluation:

- Analysis uses stations with between two and five years of data, allowing more monitoring stations to be used.
- Can help narrow down more specific areas in need of attention within the TRA basins.
- Components are independent, rather than sequential.



HOT SPOT ANALYSIS DEVELOPMENT

COMPONENTS OF THE HOT SPOT INDEX

These four statistics calculated for the BMAP overall and used to compare against each station average:

- TN or TP concentration average.
- TN or TP 90th percentile.
- TN or TP Standard Deviation (SD).
- TN or TP Percent Frequency of Samples over BMAP Threshold.

BMAP Threshold:

- Lake Okeechobee:
 - TN – Peninsular NNC – 1.54 mg/L
 - TP – TMDL – 0.04 mg/L



HOT SPOT ANALYSIS DEVELOPMENT

INDEX RANKING APPROACH

Station Concentration Average Rank

Compare to BMAP Threshold and overall BMAP average.

Rank 0: Station average below BMAP threshold.

Rank 1: Station average above threshold but below BMAP average.

Rank 2: Station average 2x above BMAP average.

Percentiles Rank

Compare to BMAP Threshold and 90th percentile for the whole BMAP.

Rank 0: Station average below BMAP threshold.

Rank 1: Station average above threshold but below 90th percentile.

Rank 2: Station average above 90th percentile.

Standard Deviation (SD) Rank

Compare to overall BMAP SD.

Rank 0: Station average below BMAP average + 0.5 SD.

Rank 1: Station average at or above average + 0.5 SD but less than BMAP average + 1 SD.

Rank 2: Station average at or above BMAP average + 1 SD..

Frequency Rank

Compare to BMAP Threshold.

Rank 0: Station percent exceedance below 5% of samples.

Rank 1: Station exceedances between 5% and 49% of samples.

Rank 2: Station exceedances over 50% of samples.



HOT SPOT ANALYSIS DEVELOPMENT

FINAL OVERALL RANK

Average Rank
+
Percentile Rank
+
SD Rank
+
Frequency Rank

=

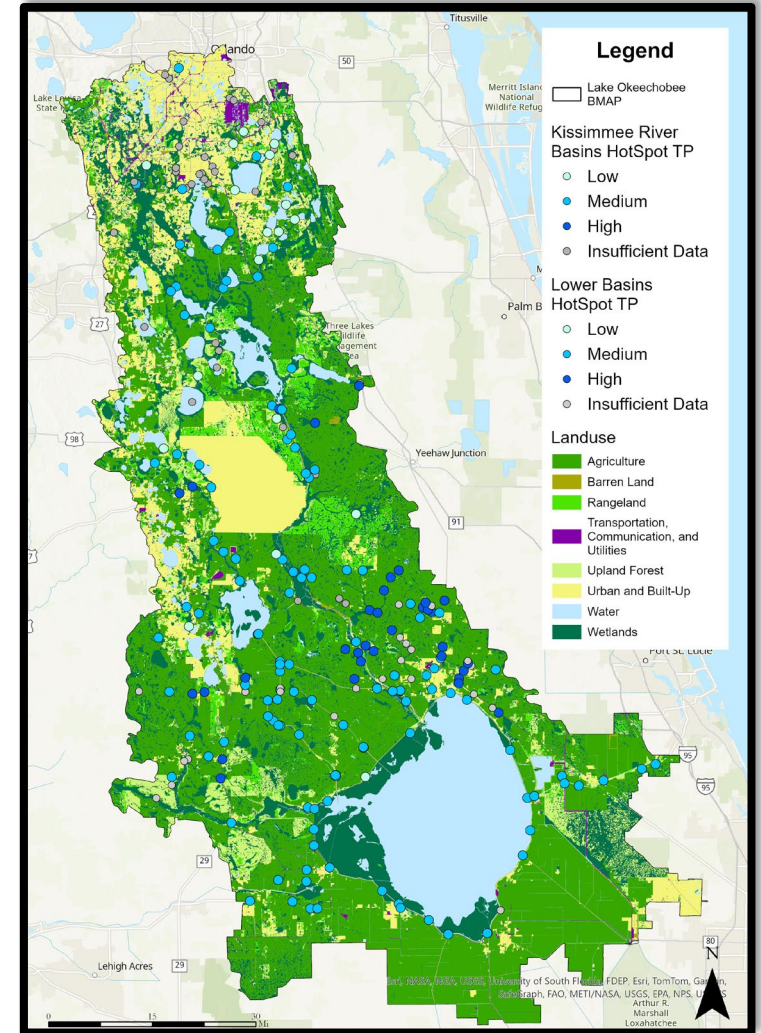
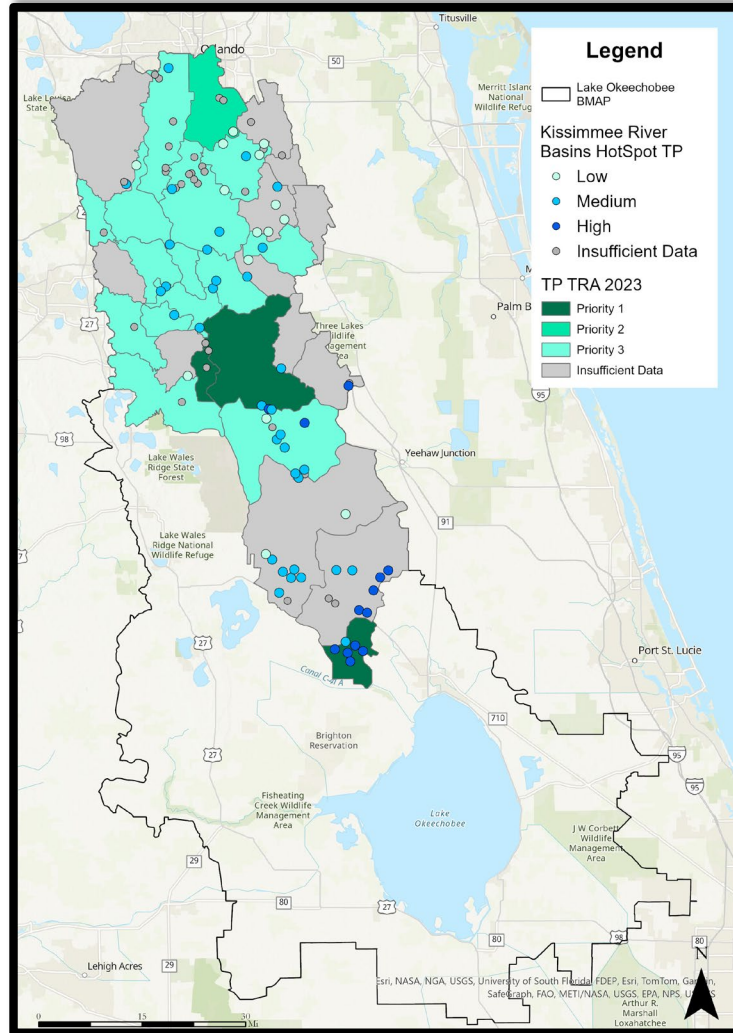
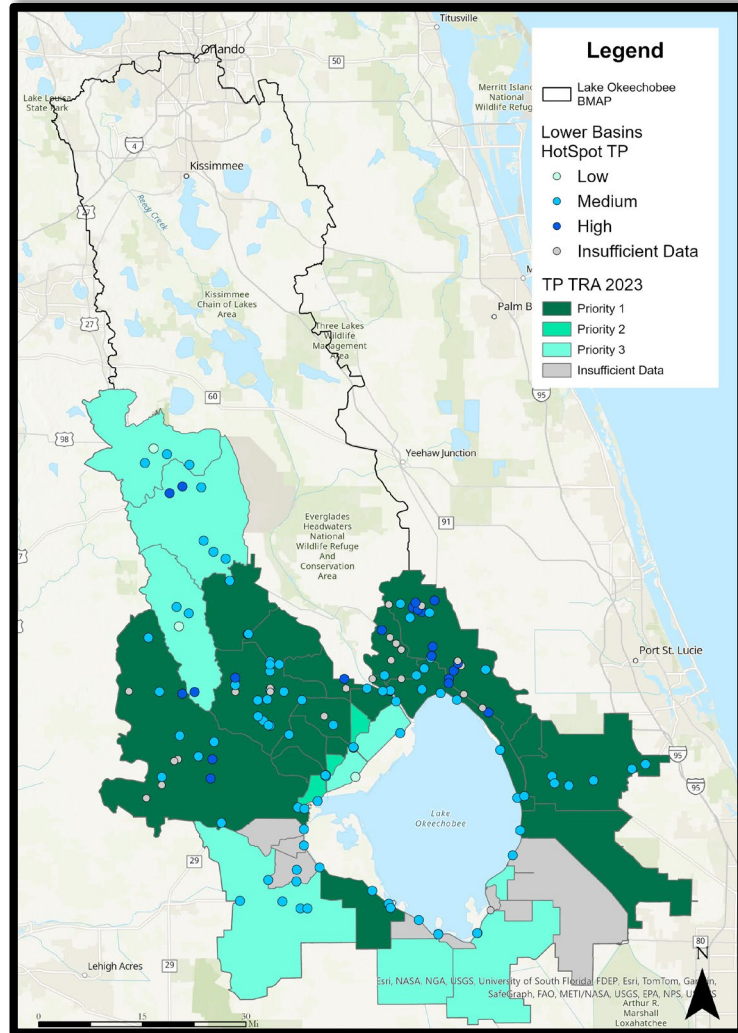
Total Index Rank

Rank 0 = Least Concern
Rank 8 = High Concern



HOT SPOT ANALYSIS RESULTS EXAMPLE

LAKE OKEECHOBEE TP RESULTS





UPCOMING SCHEDULE

Feb.
2024

Draft wastewater and OSTDS plans due from stakeholders.

Feb.- Dec.
2024

Stakeholder meetings/technical analyses/draft document.

Aug.
1, 2024

Final wastewater and OSTDS plans due from stakeholders.

Dec.
2024

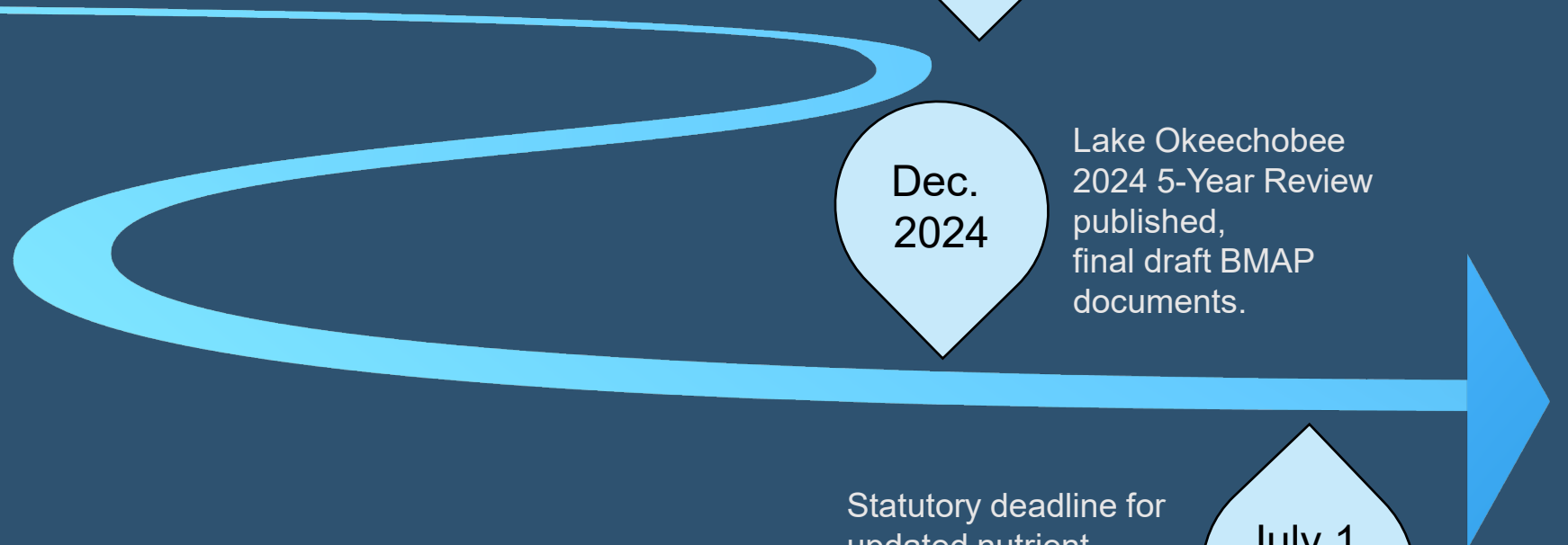
Lake Okeechobee 2024 5-Year Review published, final draft BMAP documents.

Statutory deadline for updated nutrient BMAPs.

July 1,
2025

Northern Everglades and Estuaries Protection Program (NEEPP) Workshop.

Fall
2024



Lake Okeechobee BMAP Annual Meeting

April 4, 2024

Jennifer Thera

Florida Department of Agriculture and Consumer Services

Office of Agricultural Water Policy



Florida Department of Agriculture and Consumer Services

Overview

- Office of Agricultural Water Policy (OAWP) Staff and Responsibilities
- Agricultural Best Management Practices (BMP)
- BMP Manual Update
- Enrollments within the Lake Okeechobee Basin
 - Unenrolled Agricultural Lands Classification
- BMP Implementation Verification (IVs)
- BMP Enrollment Viewer Web App
- Legislative Report



Office of Agricultural Water Policy (OAWP)

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- **Bret Prater**; Asst. Director Bret.Prater@FDACS.gov
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OAWP Responsibilities



Development and implementation of agricultural best management practices (BMPs)

Implementation of cost share programs

Water supply and water quality planning and coordination

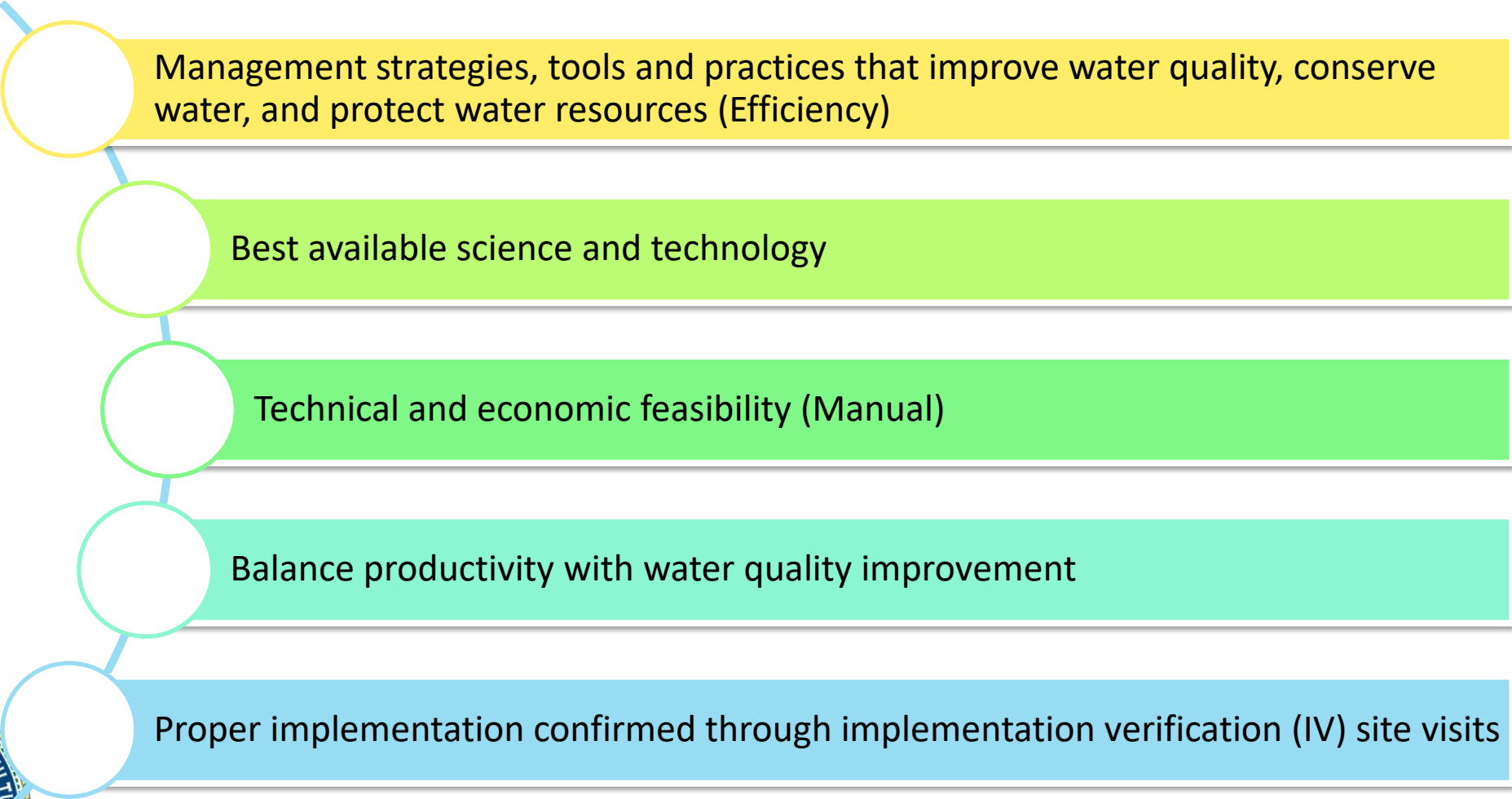
Scientific and technical research

Other policy development and statutory responsibilities

Binding determinations



Benefits of Agricultural Best Management Practices



Management strategies, tools and practices that improve water quality, conserve water, and protect water resources (Efficiency)

Best available science and technology

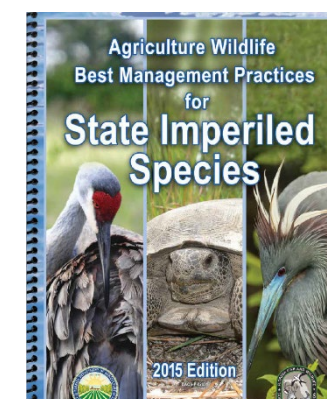
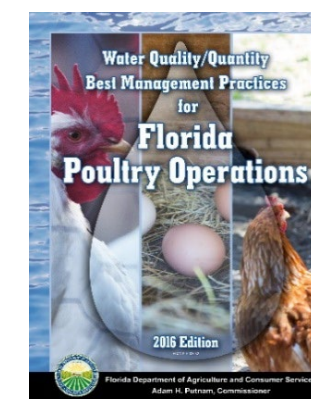
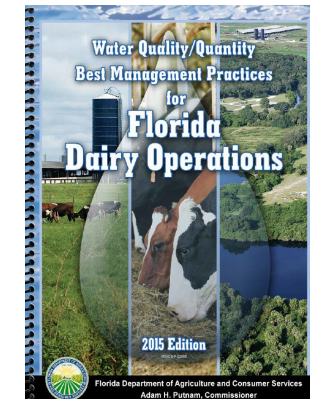
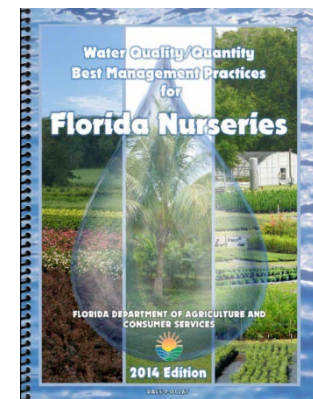
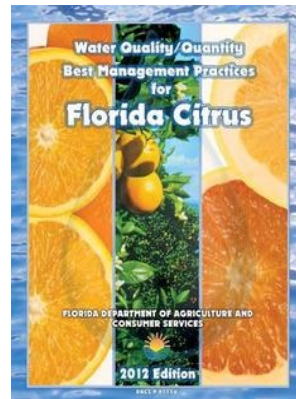
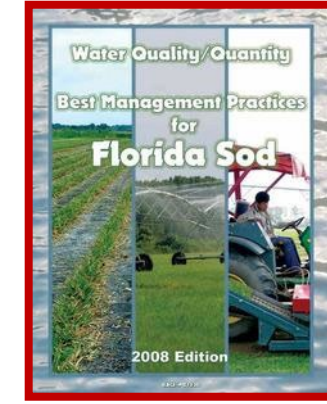
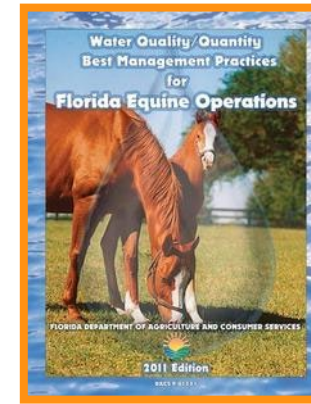
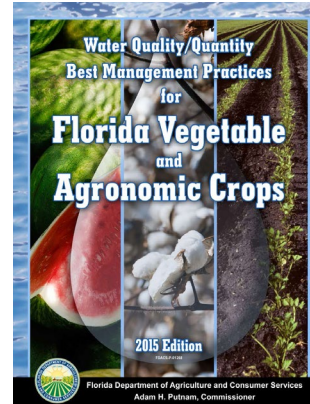
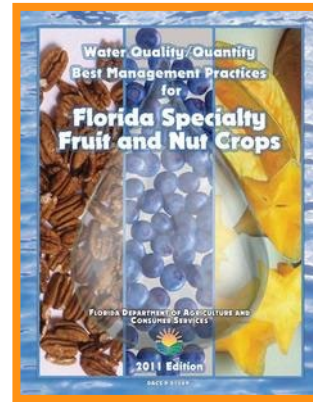
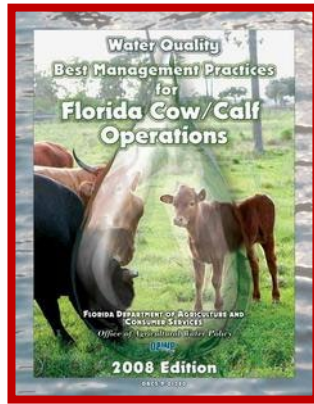
Technical and economic feasibility (Manual)

Balance productivity with water quality improvement

Proper implementation confirmed through implementation verification (IV) site visits



BMP Manuals



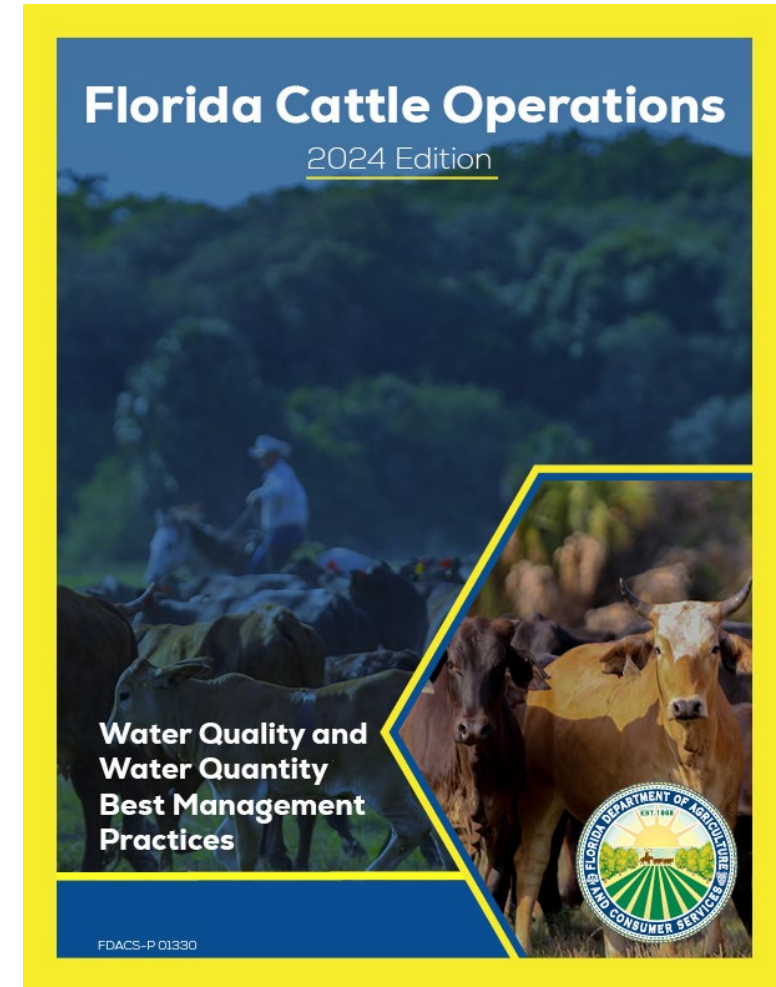
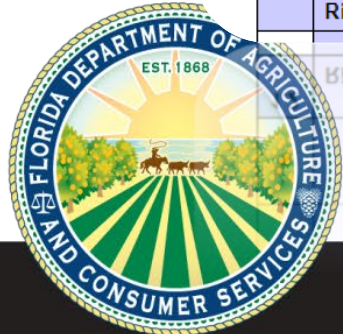
Florida Department of Agriculture and Consumer Services

Update BMP Manuals: Status

Best Management Practices (BMPs)

The producer agrees to perform the following items either checked as "In Use" or "Planned":

Nutrient Management					
Do you apply nutrients or plan to apply nutrients in any form on the operation associated with this NOI?			Yes	No	-
			In Use	Planned	N/A
1.1	Right Source				
	1	If using commercial fertilizer (including Class AA biosolids), identify and document the nitrogen (N), phosphorus (P), and potassium (K) concentrations using the guaranteed analysis or product label information prior to application.			
	2	If using manures, poultry litter, compost, or other sources, determine and document the N, P, and K concentrations of those materials prior to application. Acceptable alternatives to laboratory analysis include supplier analysis, NRCS guidelines or values established in scientific literature.			
	3	If using <u>Class A</u> or Class B biosolids, account for the nutrient concentrations and follow the requirements of the FDEP permit.			
1.2	Right Rate				
	Right Rate				
	requirements of the FDEP permit the nutrient concentrations and follow the				
	If using <u>Class A</u> or Class B biosolids' account for				
	or values established in scientific literature				



Producer Options in BMAP Areas

1. Sign a Notice of Intent (NOI) and properly implement applicable BMPs for presumption of compliance, OR
2. Follow an FDEP or WMD-prescribed water quality monitoring plan at a producer's expense



Enrollments within the Lake Okeechobee BMAP

Subwatershed	Total Ag Acres	Enrolled Ag Acres	% Enrolled	Irrigated Acres	Enrolled Irrigated Acres	% Enrolled
East Lake Okeechobee	93,938	73,489	78%	39,367	36,180	92%
Fisheating Creek	213,478	194,859	91%	18,429	15,442	84%
Indian Prairie	230,073	185,700	81%	52,065	42,782	82%
Lake Istokpoga	128,608	102,733	80%	47,567	41,316	87%
Lower Kissimmee	262,491	204,821	78%	21,185	20,040	95%
South Lake Okeechobee	327,524	319,149	97%	321,883	316,055	98%
Taylor Creek/Nubbin Slough	148,203	124,520	84%	12,434	11,277	91%
Upper Kissimmee	270,861	186,537	69%	40,364	32,450	80%
West Lake Okeechobee	150,080	133,535	89%	81,216	76,512	94%



BMP enrollment as of Dec 31, 2023, and the 10th Florida Statewide Agricultural Irrigation Demand ([FSAID](#)) Geodatabase

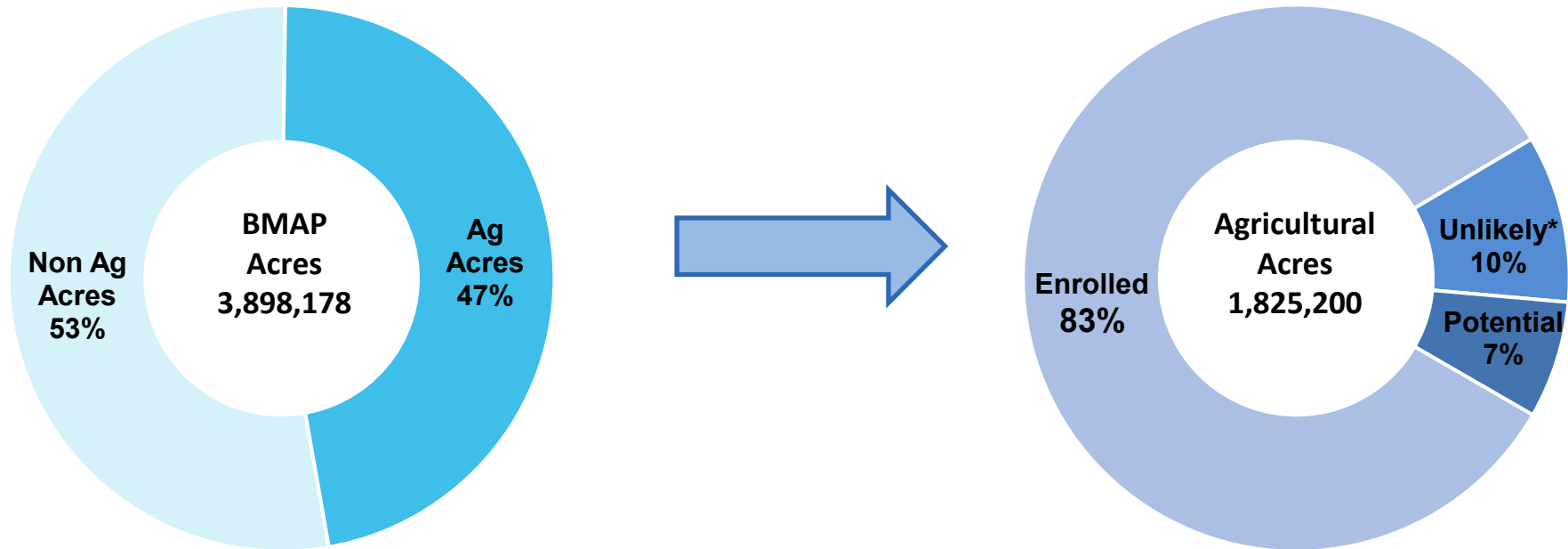
Agricultural Acres Enrolled within Lake Okeechobee BMAP

BMP Manual	Acres
Citrus	91,117
Conservation Plan	160,294
Cow/Calf	523,355
Dairy	1,963
Equine	740
Fruit/Nut	1,128
LOPP	1,143
Multiple Commodities	332,727
Nursery	3,928
Poultry	135
Row/Field Crop	398,032
Sod	10,281
Total	1,524,843



Agricultural Lands within Lake Okeechobee BMAP

Non-Agricultural Acres	Agricultural Acres	Enrolled Agricultural Acres	Unenrolled - Unlikely Enrollable Acres *	Unenrolled - Potentially Enrollable Acres
2,072,978	1,825,200	1,524,843	174,010	126,212

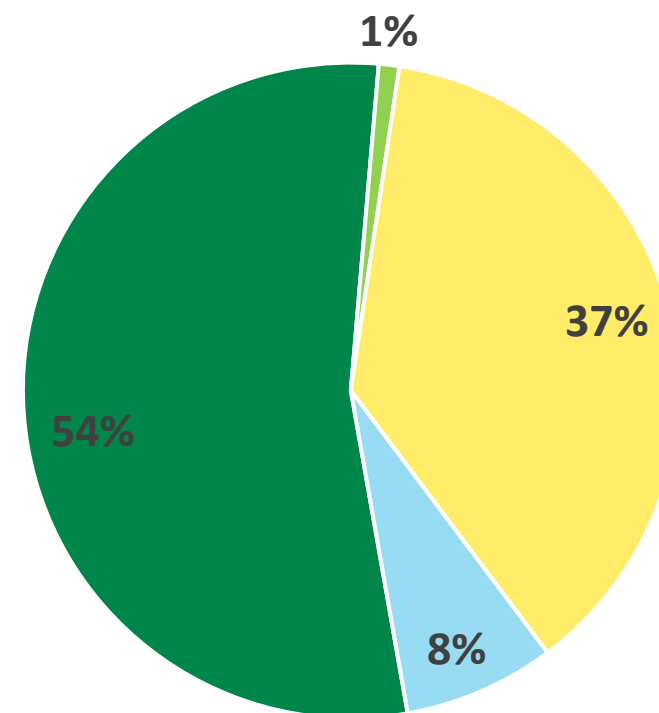


*This value includes acreages within state-owned properties and/or surface water project areas



Unenrolled - Unlikely Enrollable Acres within Lake Okeechobee BMAP

Category	Acres
State Lands, Surface Water Projects	94,206
Timberland and Aquaculture**	1,765
Not Agriculture [e.g., DOR Use Code 70-99 (industrial or institutional use, acreage not zoned agricultural)]	65,048
Not Enrollable [e.g., missing parcel information, no overlap, conflicting parcel info, slivers]	12,991

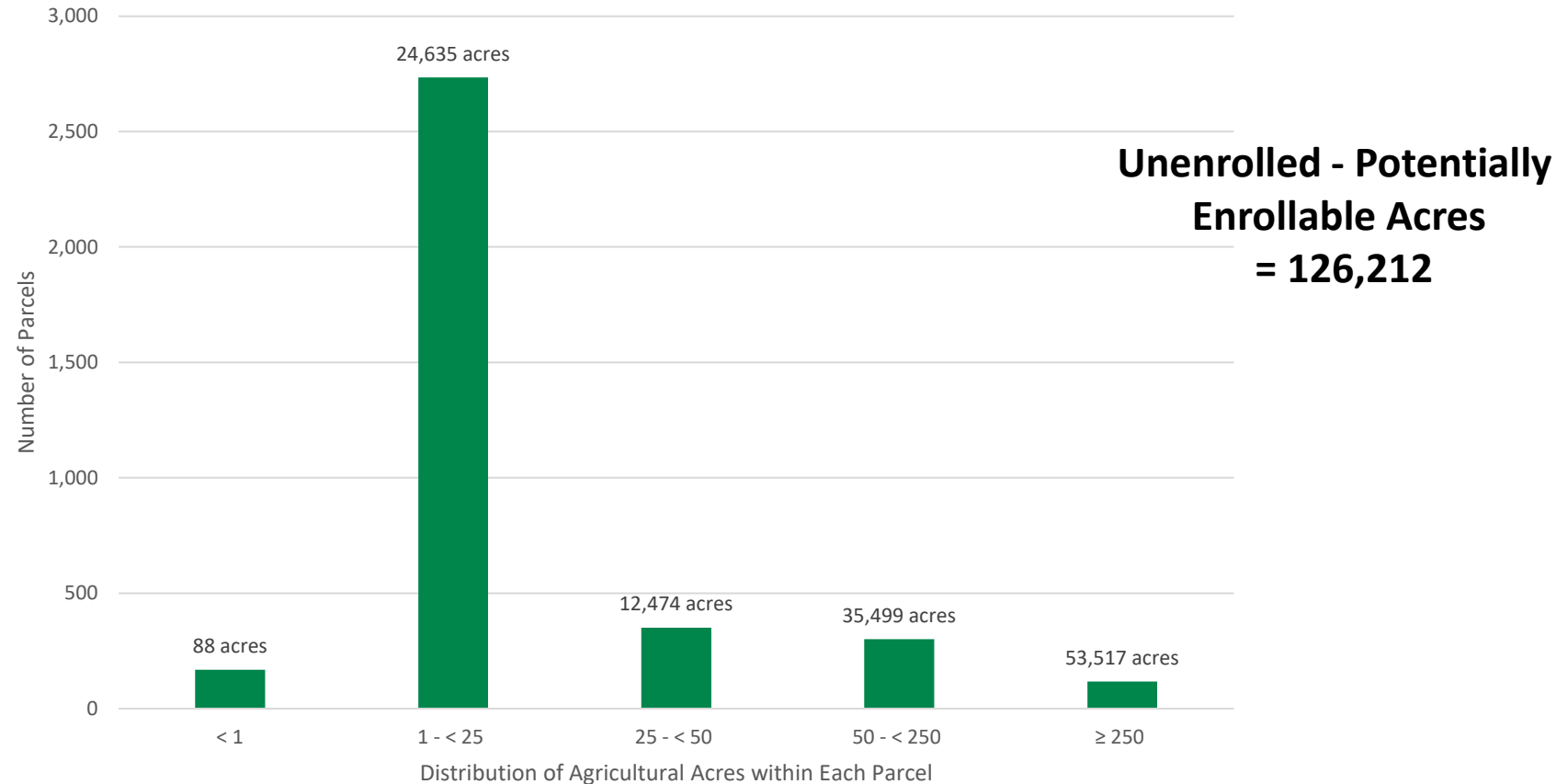


Unenrolled - Unlikely Enrollable Acres = 174,010

** May be eligible to be enrolled under the FDACS Florida Forest Service's Silviculture BMP Manual or the FDACS Division of Aquaculture's Aquaculture BMP manual.



Potentially Enrollable Parcels & Agricultural Acres within Lake Okeechobee BMAP



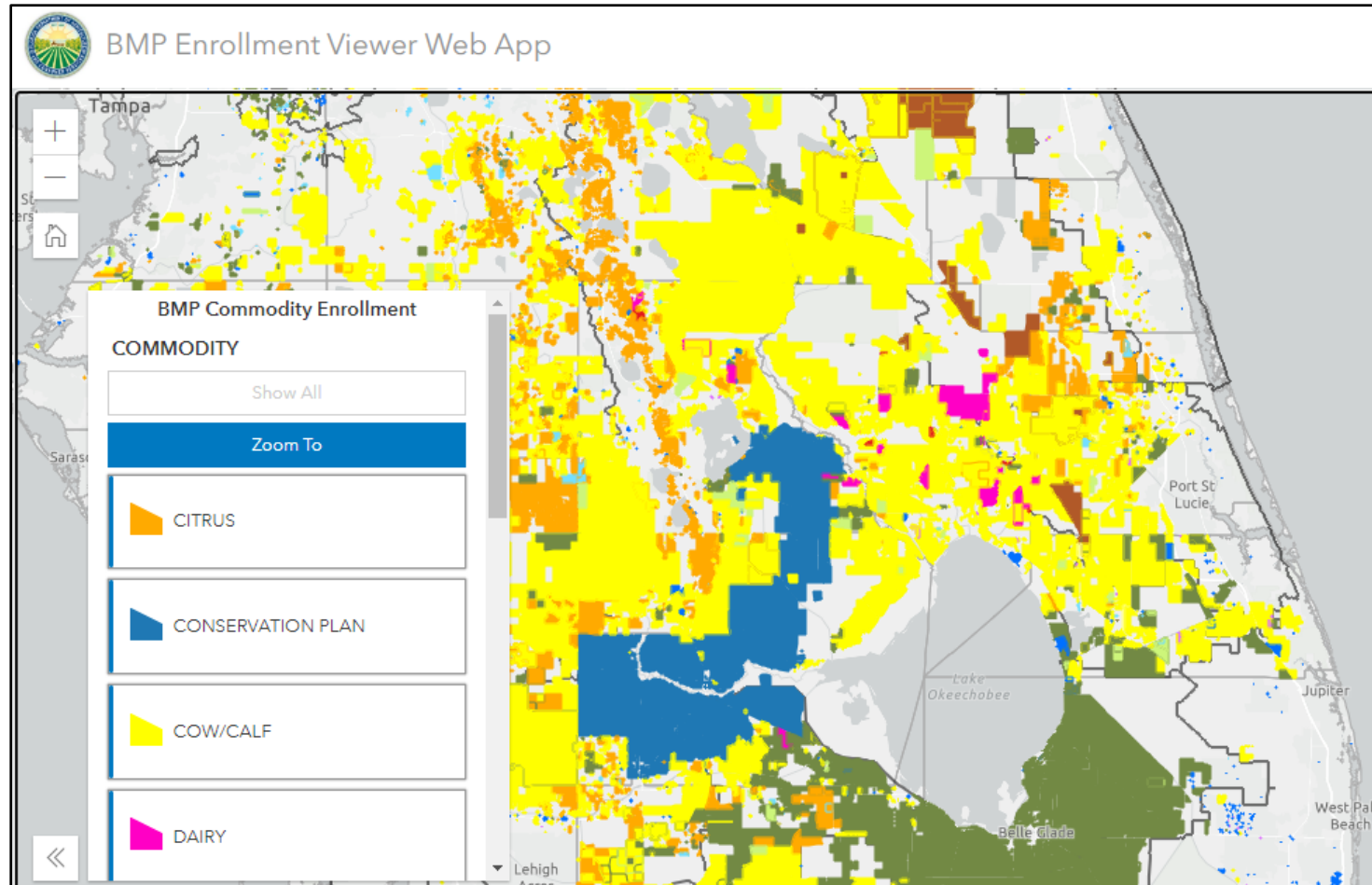
BMP Implementation Verification (IV)

- Process to verify the status of implementation of BMPs
- **Clean Waterways Act - SB 712 (July 2020)**
 - Requires IV site visits every 2 years
 - 85% completed**
 - Requires collection, review, and retention of N and P fertilizer records
 - Nutrient Application Record Form (NARF)
 - FDACS reports total N and P applications to FDEP for utilization in BMAP assessments

** IVs completed as of Dec 31, 2023



BMP Enrollment Viewer Web App



[Office of Agricultural Water Policy: BMP Enrollment Map \(fdacs.gov\)](https://fdacs.gov)

Florida Department of Agriculture and Consumer Services

2024 FDACS Legislative Report

Florida Department of Agriculture and Consumer Services Office of Agricultural Water Policy



Status of Implementation of Agricultural Nonpoint Source Best Management Practices

Report to the Governor, the President of the Senate, and the Speaker of the House
Pursuant to Section 403.0675(2), F.S.

Publication No: FDACS-P-01924 Rev. 07/22



Status of Implementation of Agricultural Best Management Practices (BMPs) Statewide

Non-Agricultural Acres	Agricultural Acres	Enrolled Agricultural Acres	Unenrolled - Unlikely Enrollable Acres *	Unenrolled - Potentially Enrollable Acres
34,544,529	7,539,880	4,571,656	858,331	1,883,959

*This value includes acreages within state-owned properties and/or surface water project areas

Figure 1

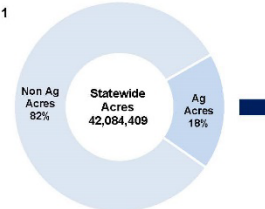


Figure 2

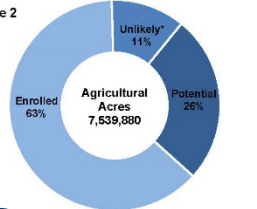


Figure 3
Potentially Enrollable Acres & Agricultural Acres

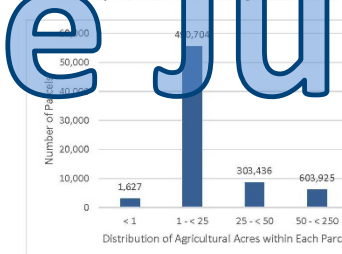


Table 2
Enrolled Agricultural Acres by Manual

BMP Manual	Acres
Citrus	284,539
Conservation Plan	26,836
Cow/Calf	71,781
Dairy	4,786
Equine	188
Fruit/Nut	8,204
Multiple Commodities	251,414
Nursery	22,363
Poultry	19
Row/Field Crop	727,756
Sod	16,640
Temporarily Inactive	2,119
Wildlife	10
Total	1,415,975

Figure 4
Cost Share Summary



1

Status of Implementation of Agricultural Best Management Practices (BMPs) in the Lake Okeechobee BMAP

Non-Agricultural Acres	Agricultural Acres	Enrolled Agricultural Acres	Unenrolled - Unlikely Enrollable Acres *	Unenrolled - Potentially Enrollable Acres
2,072,978	1,825,200	1,524,843	174,010	126,212

*This value includes acreages within state-owned properties and/or surface water project areas

Figure 1

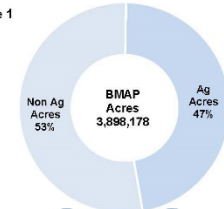


Figure 2

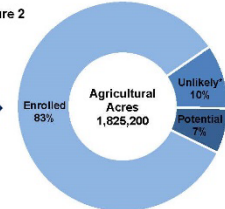


Figure 3
Potentially Enrollable Acres & Agricultural Acres

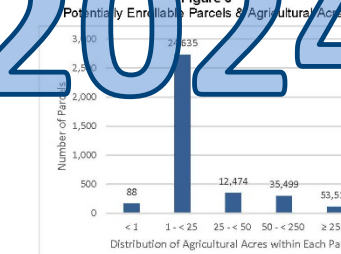


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Figure 4
Cost Share Summary



1

<https://www.fdacs.gov/Divisions-Offices/Agricultural-Water-Policy>

Florida Department of Agriculture and Consumer Services

Thank You!

<http://www.fdacs.gov/Divisions-Offices/Agricultural-Water-Policy>

Jennifer Thera, Environmental Consultant
Jennifer.Thera@FDACS.gov – (850) 617-1722



Florida Department of Agriculture and Consumer Services



THANK YOU

Diana Turner

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection

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