



Webinar Housekeeping

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Join audio:

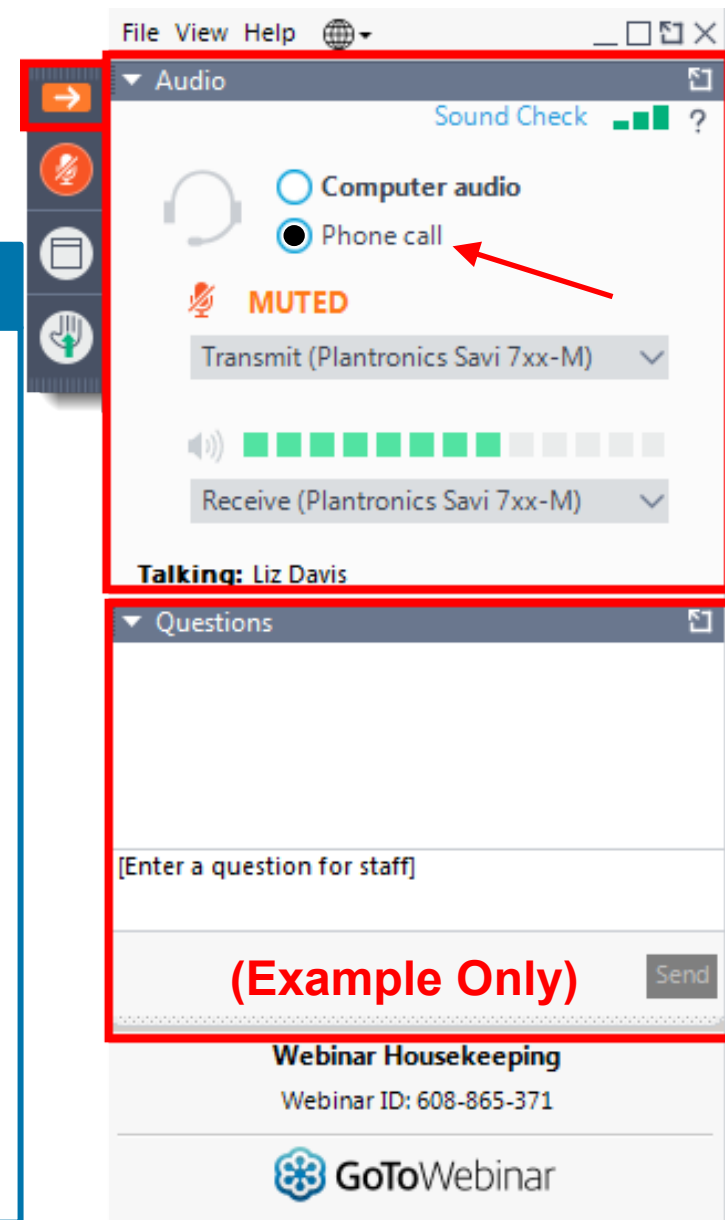
- Choose Computer Audio or
- Choose Phone Call and dial using the information provided with your registration

Attendee audio will automatically be muted.

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

If viewing this webinar as a group, please provide a list of attendees via the **Questions** panel.

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





Caloosahatchee River and Estuary Basin Management Action Plan (BMAP) Meeting

May 13, 2022



Agenda

Image credit:
Michael Adrian

- Background
- South Florida Water Management District (SFWMD) Updates
- Statewide Annual Report (STAR)
- 5-Year Review
- What's Next?
- Florida Department of Agriculture and Consumer Services (FDACS) Updates



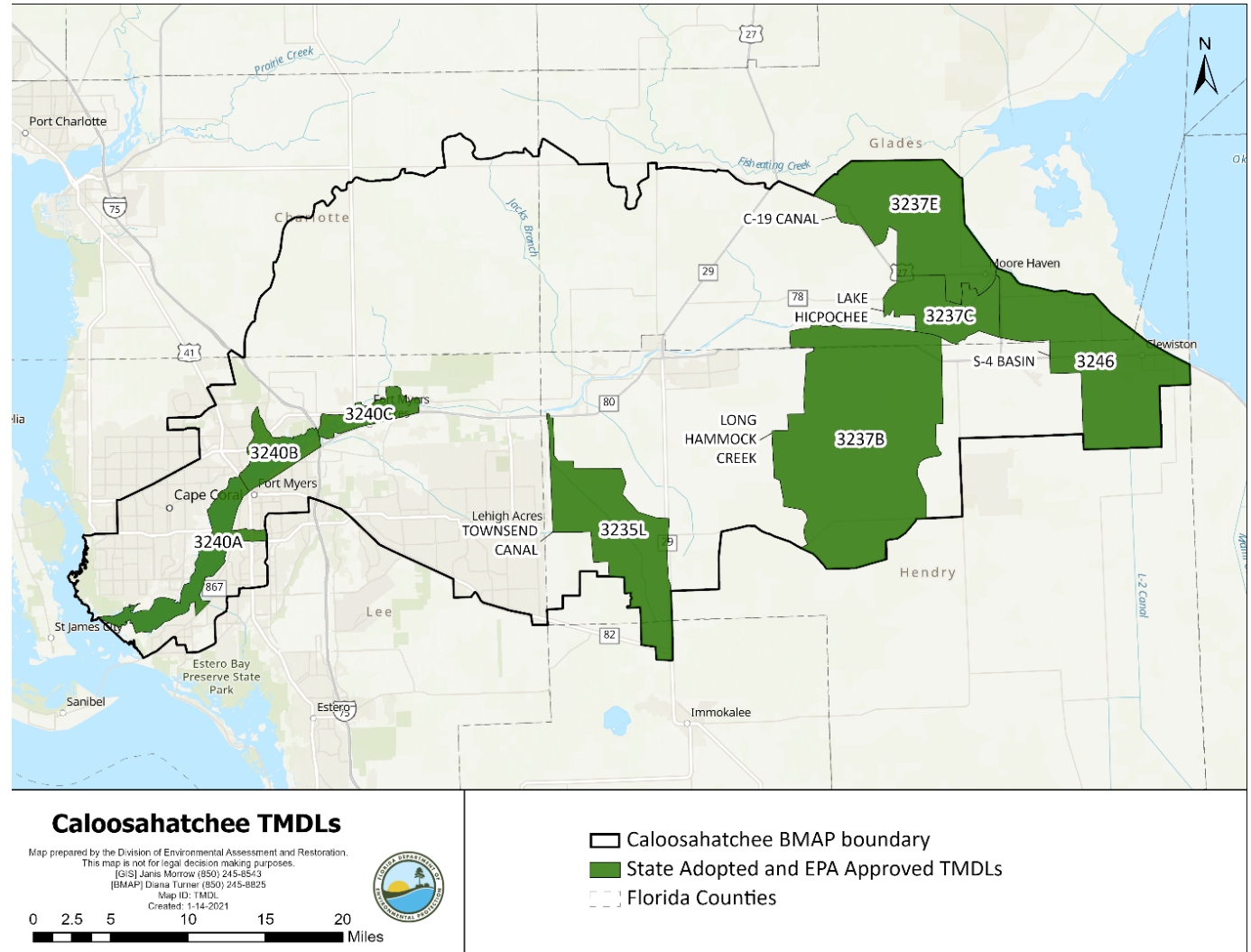
Background

- Caloosahatchee Total Maximum Daily Loads (TMDLs)
- Caloosahatchee BMAP
- Stakeholders



Background: TMDLs

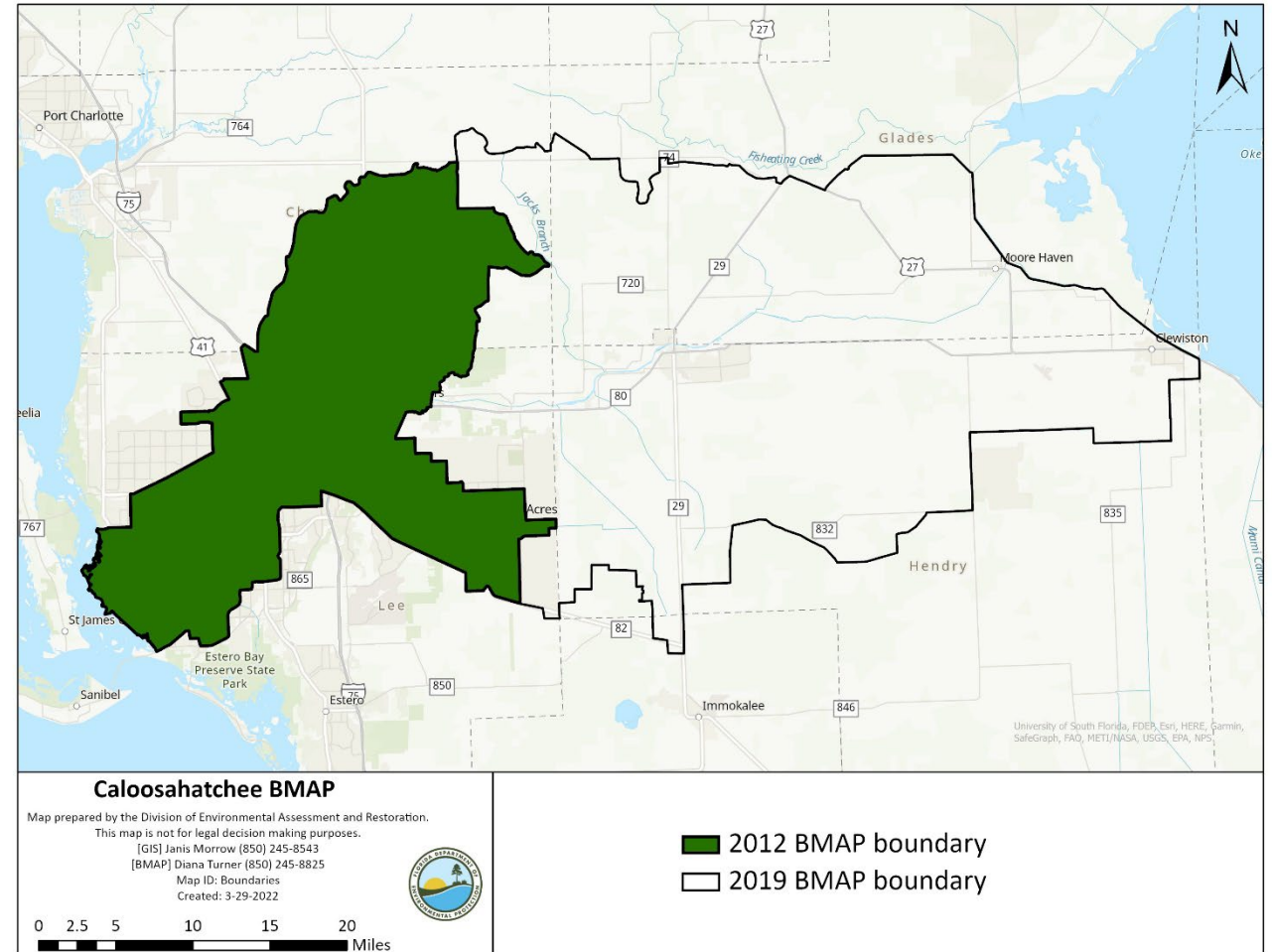
- Estuary TMDL for Total Nitrogen (TN) adopted in 2009.
- Tributary TMDLs for TN and Total Phosphorus (TP) adopted in 2019.





Background: BMAP

- BMAP initially adopted in June 2012 for the tidal portion.
- Progress towards achieving TMDL guided by 5-year milestones.
 - First 5-Year Review completed in 2017.
- Updated BMAP adopted in February 2020.





Stakeholders

Type of Governmental or Private Entity	Participant
Local Governments	Charlotte County Collier County Glades County Hendry County Lee County City of Cape Coral City of Clewiston City of Fort Myers City of LaBelle City of Moore Haven
Community Development Districts	Lucaya Mirada Moody River Estates Port LaBelle Portico River Hall Sail Harbour Sugarland Verandah East Verandah West

Type of Governmental or Private Entity	Participant
Special Districts	Barron Water Control District Clewiston Water Control District Collins Slough Water Control District County Line Drainage District Cow Slough Water Control District Devil's Garden Water Control District Disston Island Conservancy District Flaghole Drainage District Gerber Groves Water Control District Hendry-Hilliard Water Control District Lehigh Acres Municipal Services District Sugarland Drainage District
Agencies	Florida Department of Agriculture and Consumer Services Florida Department of Environmental Protection Florida Department of Transportation District 1 South Florida Water Management District



SFWMD Updates

Stacey Ollis

Principal State Policy Analyst

SFWMD Division of Ecosystem Restoration & Capital Projects

Everglades & Estuaries Protection Bureau

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SFWMD Update

Caloosahatchee River Watershed Construction Project

Stacey Ollis, PMP
Principal State Policy Analyst
Everglades and Estuaries Protection Bureau
Caloosahatchee River and Estuary BMAP Annual Meeting
May 13, 2022

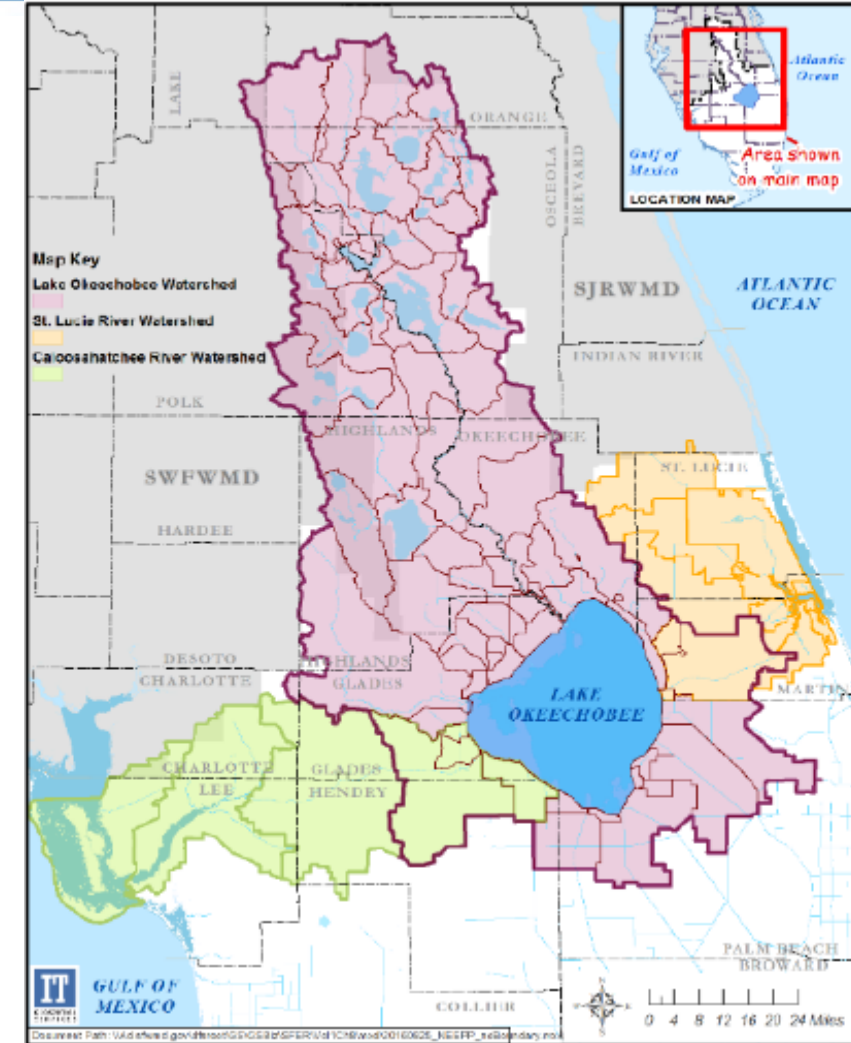
Agenda

- Northern Everglades Program Overview
- 2021 Caloosahatchee River Watershed Construction Project Review
 - Project Spotlights
 - Water Storage Benefits
- What's New
- Watershed Protection Plan Reporting

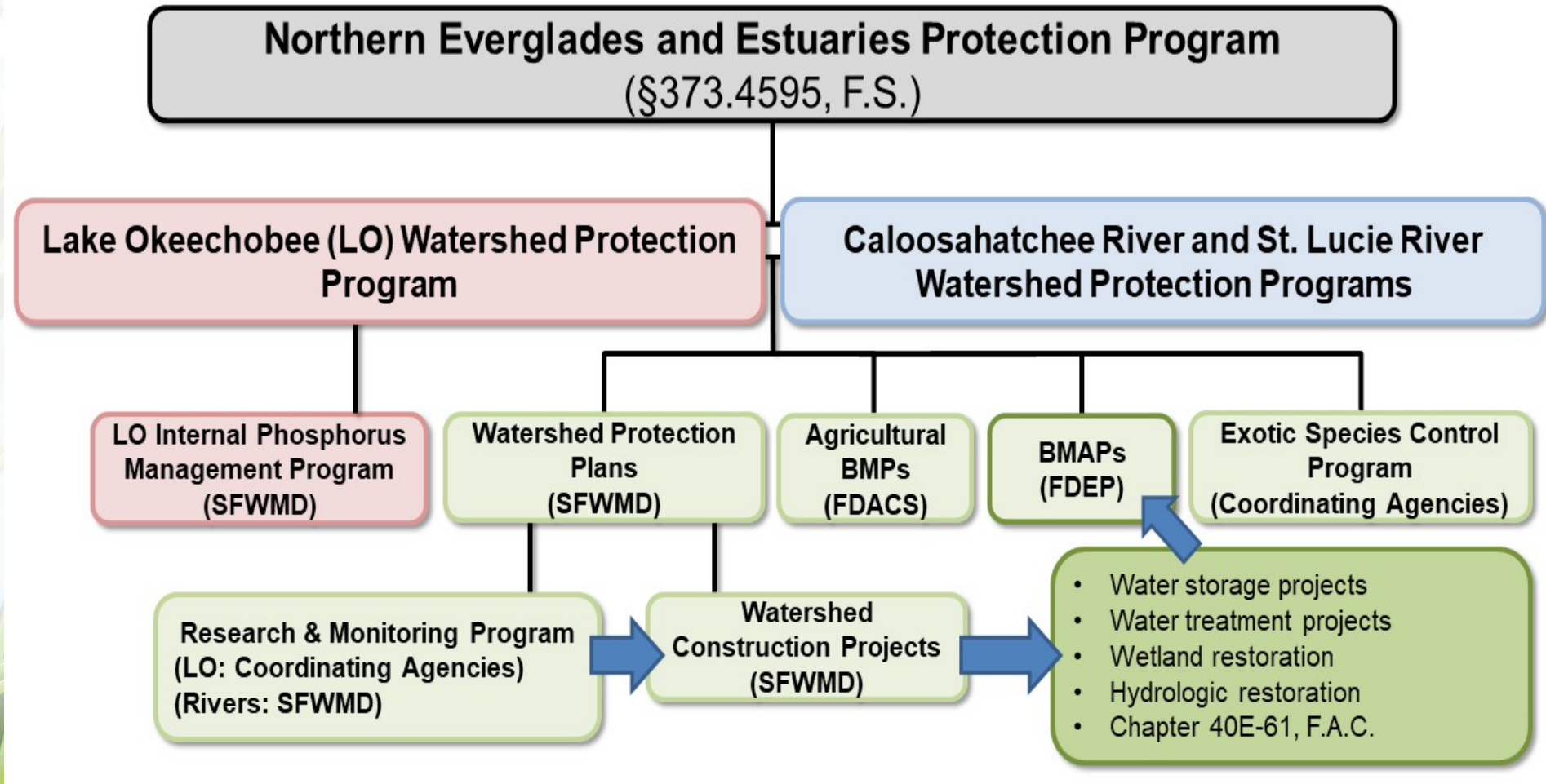


Northern Everglades and Estuaries Protection Program (NEEPP)

- 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



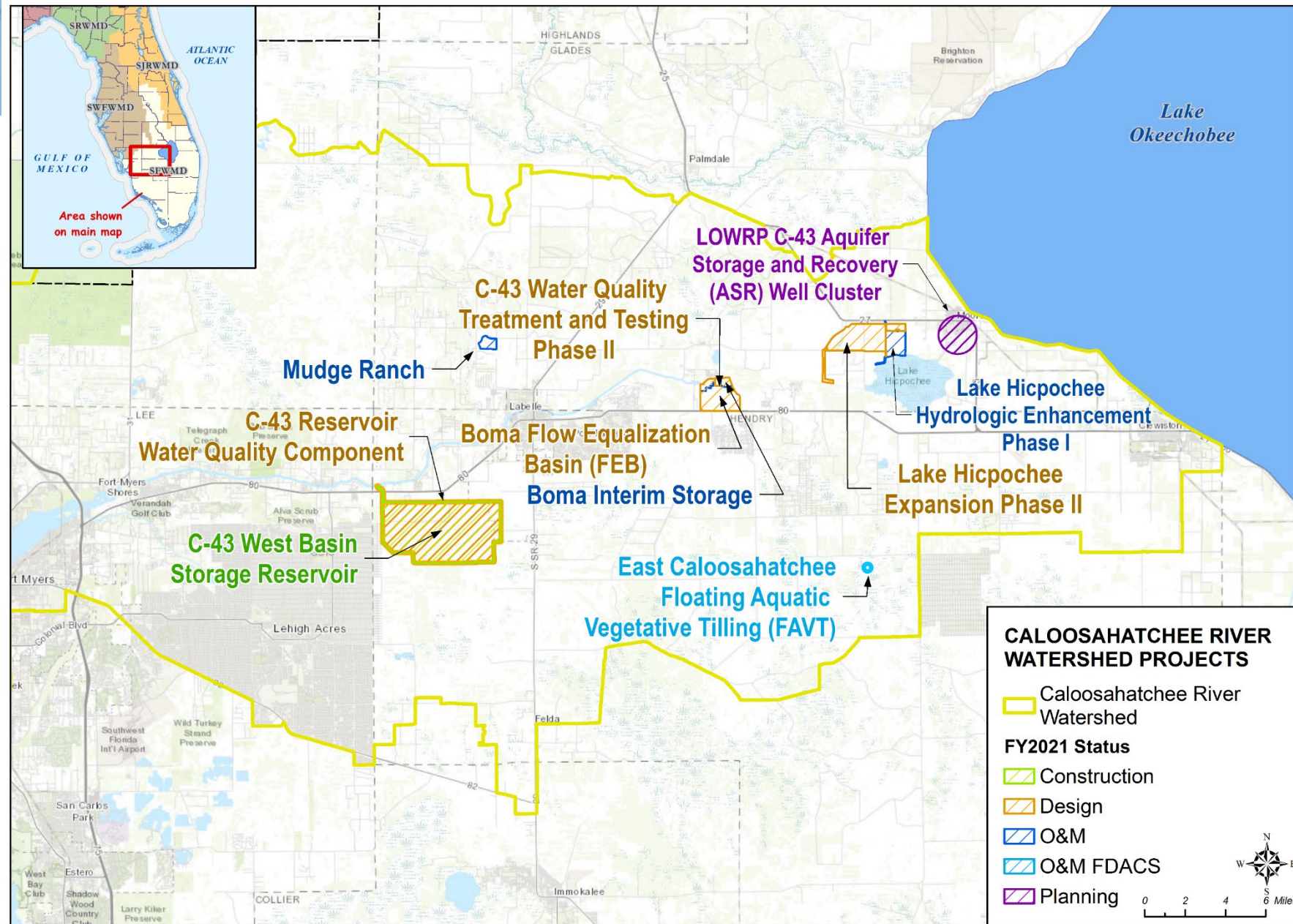
Caloosahatchee River Watershed Construction Project Review

- In 2020, SFWMD initiated annual Caloosahatchee River Watershed Construction Project (CRWCP) 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: 2021 CRWCP Review
 - Key accomplishments during Fiscal Year (FY) 2021 (Oct. 1, 2020–Sept. 30, 2021)
 - Final 2022 SFER – Volume I, Chapter 8D (March 1, 2022) at [SFWMD.gov/SFER](https://www.sfwmd.gov/SFER)

SFWMD Projects

➤ FY2021 CRWCP Status:

- 1 project – planning
- 4 projects – design
- 1 project – construction
- 3 projects – operations



Project Spotlights

- C-43 West Basin Storage Reservoir and Water Quality Component
- Boma Flow Equalization Basin (FEB) and C-43 Water Quality Treatment & Testing Facility – Phase II, Test Cells
- Lake Hicpochee Hydrologic Enhancement – Phase II Expansion



C-43 West Basin Storage Reservoir



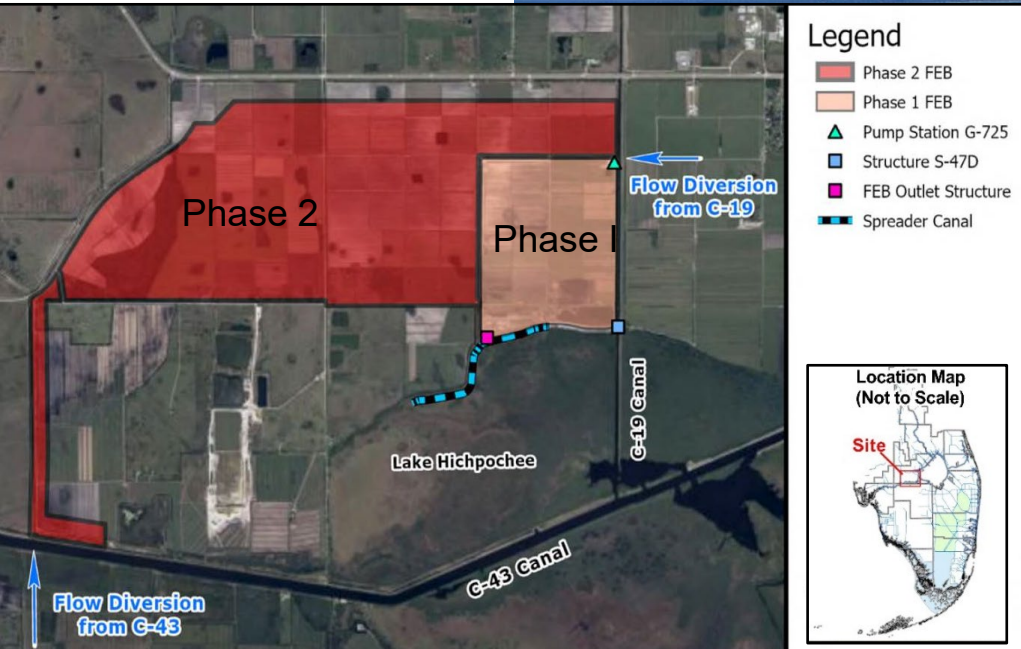
C-43 Reservoir Water Quality Component

Working Group



S-470 Intake Pump Station

Lake Hicpochee Hydrologic Enhancement



Boma Flow Equalization Basin & C-43 Water Quality Treatment & Testing Facility



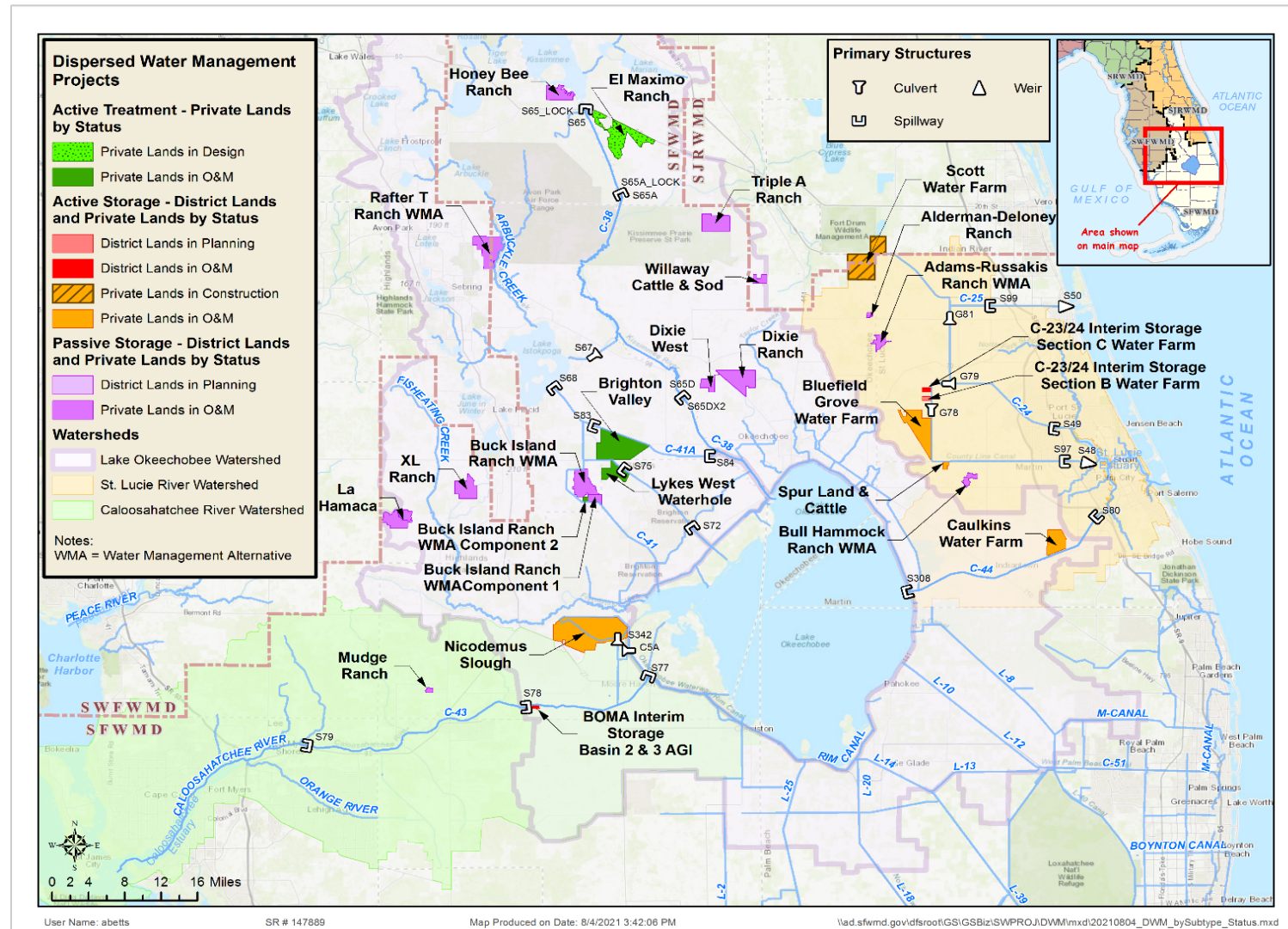
Boma Facility



Mesocosms

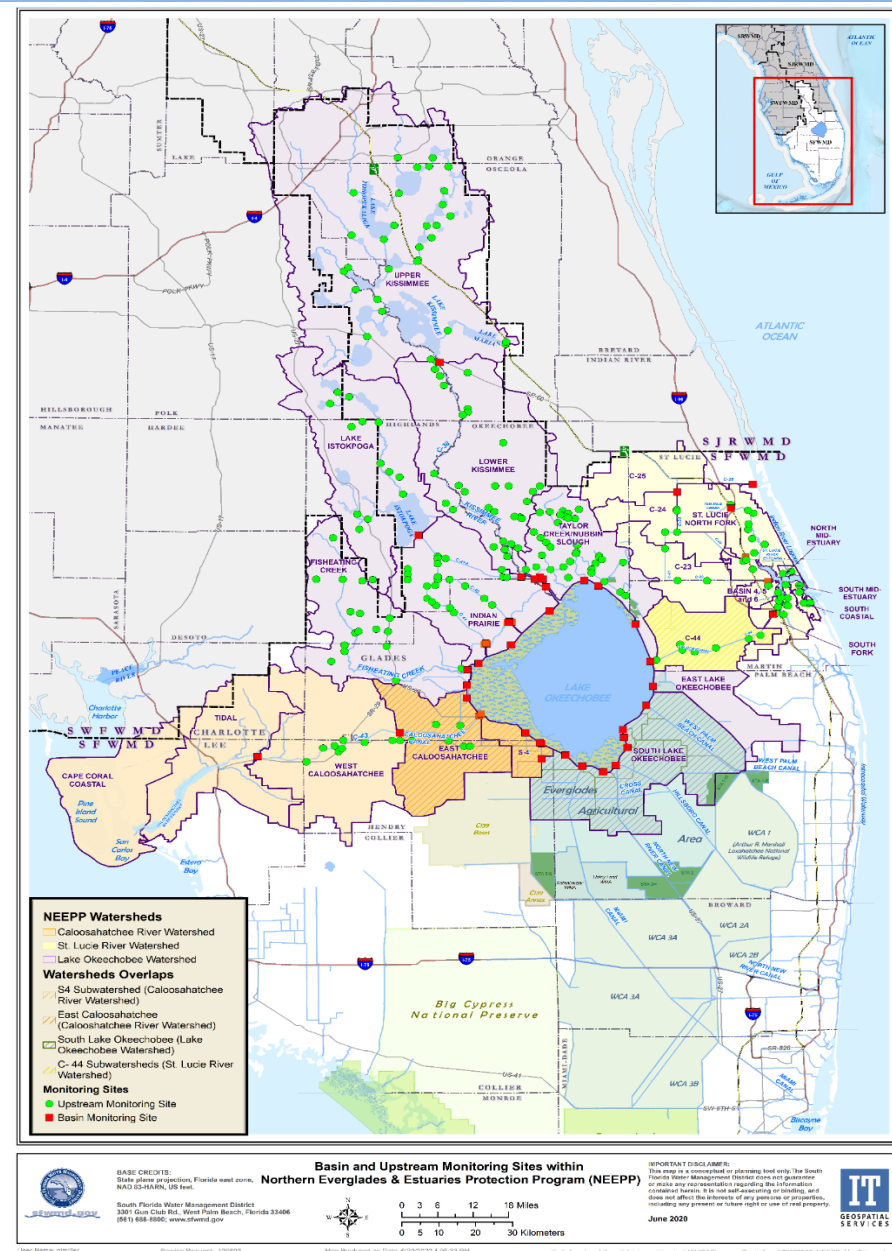
Water Storage Benefits

- Key DWM program benefits:
 - Reduces runoff/discharge to and stores/treats water in regional system
 - Promotes hydrologic enhancement, groundwater recharge, habitat improvements
 - Avoids high cost of land purchase and keeps private lands on local tax rolls
 - Storage and/or treatment provided typically exceeds permit requirements
- In Water Year 2021, 3 SFWMD projects provided ~6,154 ac-ft of storage (4,407 ac-ft, 2 DWM; 1,747 ac-ft, 1 regional)
- Once fully operational, C-43 Reservoir will add storage capacity of 170,000 ac-ft/year



New Monitoring Network Expansion

Elements	Basin Level	Upstream Level
# of sites	47 (32 LOW, 8 CRW, and 7 SLRW)	211 (67 added in 2020 with expansion) 150 LOW, 15 CRW, and 46 SLRW
Frequency	Biweekly or Weekly	Biweekly
Monitored parameters	TP, OPO4, TN, NH4, NOx, pH, Temperature, Dissolved Oxygen, Conductivity	TP, OPO4, TN, NH4, NOx, pH, Temperature, Dissolved Oxygen, Conductivity



Final 2022 SFER – Volume I, Appendix 8D-1 at [SFWMD.gov/SFER](https://www.sfwmd.gov/SFER)

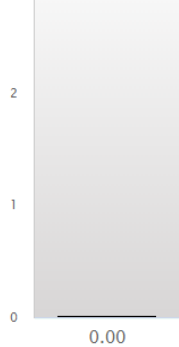
New DBHYDRO Insights



Current Conditions at site TCNS214
@ Sep 30, 2021 8:44:27 PM

Stage

*black line –
historic value on
this day



Water level is not
available

Rainfall

Last 72 hours

Radar
0 Inches



Gauge
N/A

Flow

Current Flow
Rate
0 cfs



7 Day Flow
Volume
N/A
Midnight
Minus 7 Days

All parameters

Get Data

Hydrologic / Other	Start Date	End Date	
Water Quality	Start Date	End Date	Samples
AMMONIA-N	8/10/1988	9/9/2021	758
CHLORIDE	10/10/1989	4/11/2011	669
COLOR	8/10/1988	7/8/1993	89
DEPTH, TOTAL	12/30/1992	6/8/2021	24
DISSOLVED OXYGEN	10/12/1988	9/9/2021	601
KJELDAHL NITROGEN, TOTAL	8/10/1988	2/17/2014	765
NITRATE+NITRITE-N	8/10/1988	9/9/2021	788

Graph

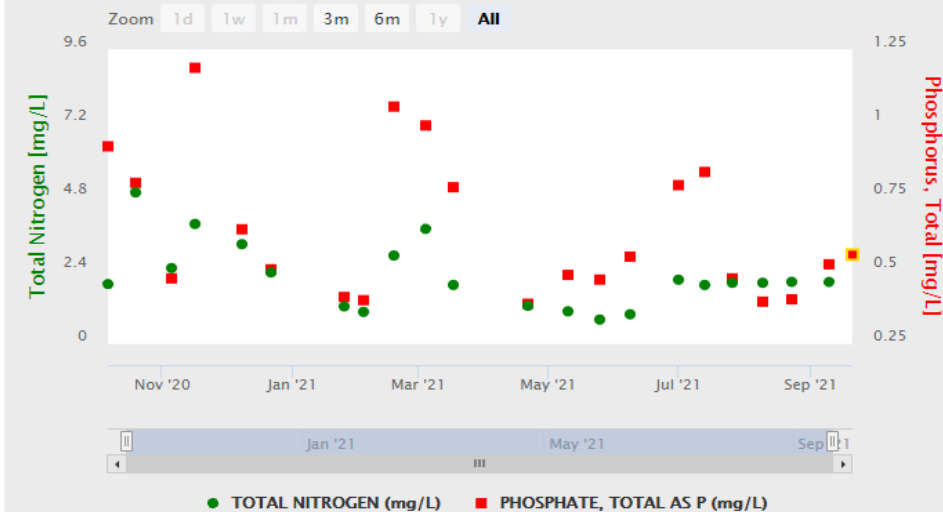
Table

Statistics

Past Year

Site: TCNS214

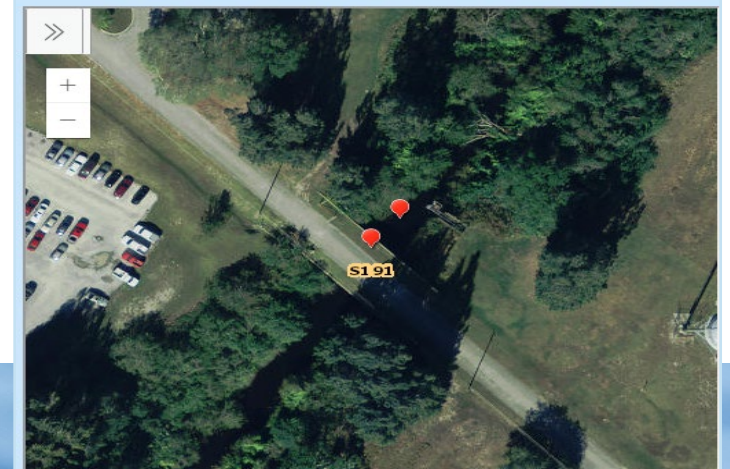
Provisional Data Display: Water Quality results highlighted yellow, Rainfall as a lighter shade of blue, and Others by a dashed line.



WATER QUALITY MONITORING

Active

Latitude: 27.304307
Longitude: -80.819279



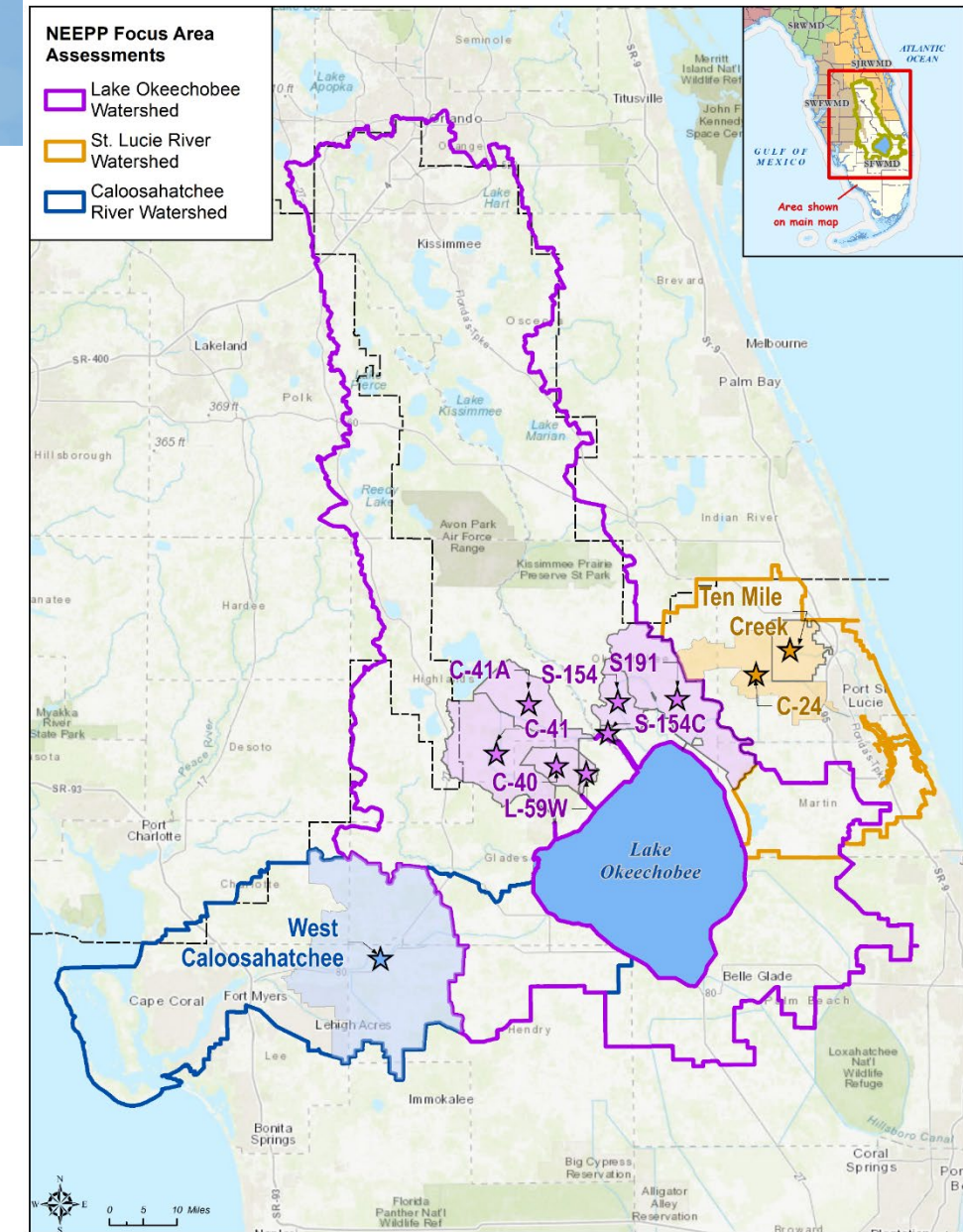
[sfwmd.gov/DBHYDROInsights](https://www.sfwmd.gov/DBHYDROInsights)

sfwmd.gov

Presenter: Stacey Ollis

New Focus Area Assessments

- Basin-specific assessments in NEEPP priority areas started in 2021
 - Focus on 10 basins in NE watersheds; West Caloosahatchee Basin
- Key benefits are to:
 - Help pinpoint sources contributing to issues in high-nutrient areas
 - Review expected reductions from existing and planned projects
 - Determine what remains to be done to improve water quality
 - Recommend strategic actions for planning future projects
- Complement water quality improvements outlined in BMAPs
- Final 2022 SFER – Volume I, Appendix 8D-2 at [SFWMD.gov/SFER](https://www.sfwmd.gov/SFER)



Watershed Protection Plan Reporting

For more information, visit:

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

and

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

(Final 2022 SFER –
Volume I, Chapter 8D)



Contact Information

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Statewide Annual Report (STAR)

- STAR Background
- STAR 2021 Progress and Timeline
- STAR Portal Rollout
- Progress of BMAP Projects



STAR Background

- Requirement under Section 403.0675 Florida Statutes (F.S.) to provide an annual update to the Governor and Legislature.
- Summarizes accomplishments in the BMAPs statewide.
- Reports on restoration projects and management strategies.
- All BMAP reporting periods align with calendar year.
- Submitted to the Governor and the Legislature by July 1 of each year.
- Annual meetings = opportunity to highlight stakeholder activities.



STAR

- Fourth STAR will be submitted to the Governor and the Legislature this summer.
- Viewable as interactive story map.

Florida Statewide Annual Report

Published June 30, 2021

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

Troubleshooting

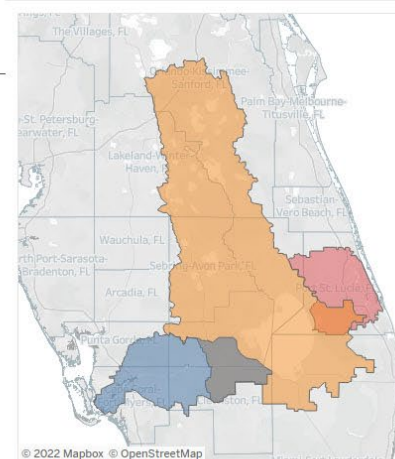
Basin Management Action Plans

Northern Everglades and Estuaries Protection Program BMAPs

Introduction

In 2007, the Florida Legislature created the Northern Everglades and Estuaries Protection Program, which expanded the Lake Okeechobee Protection Act to include the Caloosahatchee River and the St. Lucie River and Estuaries. During the 2016 session, the Florida Legislature amended the Northern Everglades and Estuaries Protection Program (Section 373.4595, F.S.) to strengthen provisions for implementing the BMAPs and further clarify the roles and responsibilities, coordination, implementation, and reporting efforts among the three Coordinating Agencies: DEP, FDACS, and South Florida Water Management District (SFWMD). The primary goal of the program is to restore and protect the state's surface water resources by addressing the quality, quantity, timing, and distribution of water to the natural system.

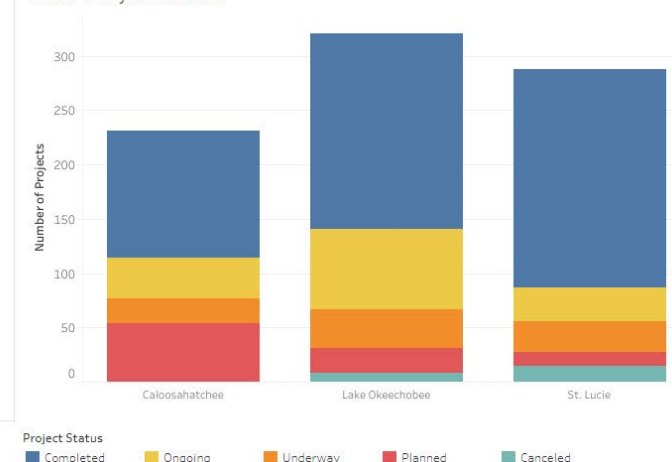
Section 373.4595, F.S., requires the Northern Everglades and Estuaries Protection Program BMAPs to include milestones for implementation and water quality improvement, and associated water quality monitoring components sufficient to evaluate whether reasonable progress is being achieved over time. Implementation



BMAP Name
Caloosahatchee Lake Okeechobee St. Lucie

BMAP Name	Lead Entity	Project Nu..	Project Name	Project Type
Caloosahatchee	Barron WCD	BD-01	Public Education and Outreach	Education Efforts
		BD-02	FDACS BMP Assistance	Agricultural BMPs
		BD-03	Nutrient Controls	Fertilizer Cessation
		BD-04	Canal/Ditch Bank Berms	Shoreline Stabilization
		BD-05	Canal/Ditch Bank Berms	Shoreline Stabilization

BMAP Project Status



[Florida Statewide Annual Report \(arcgis.com\)](https://arcgis.com)



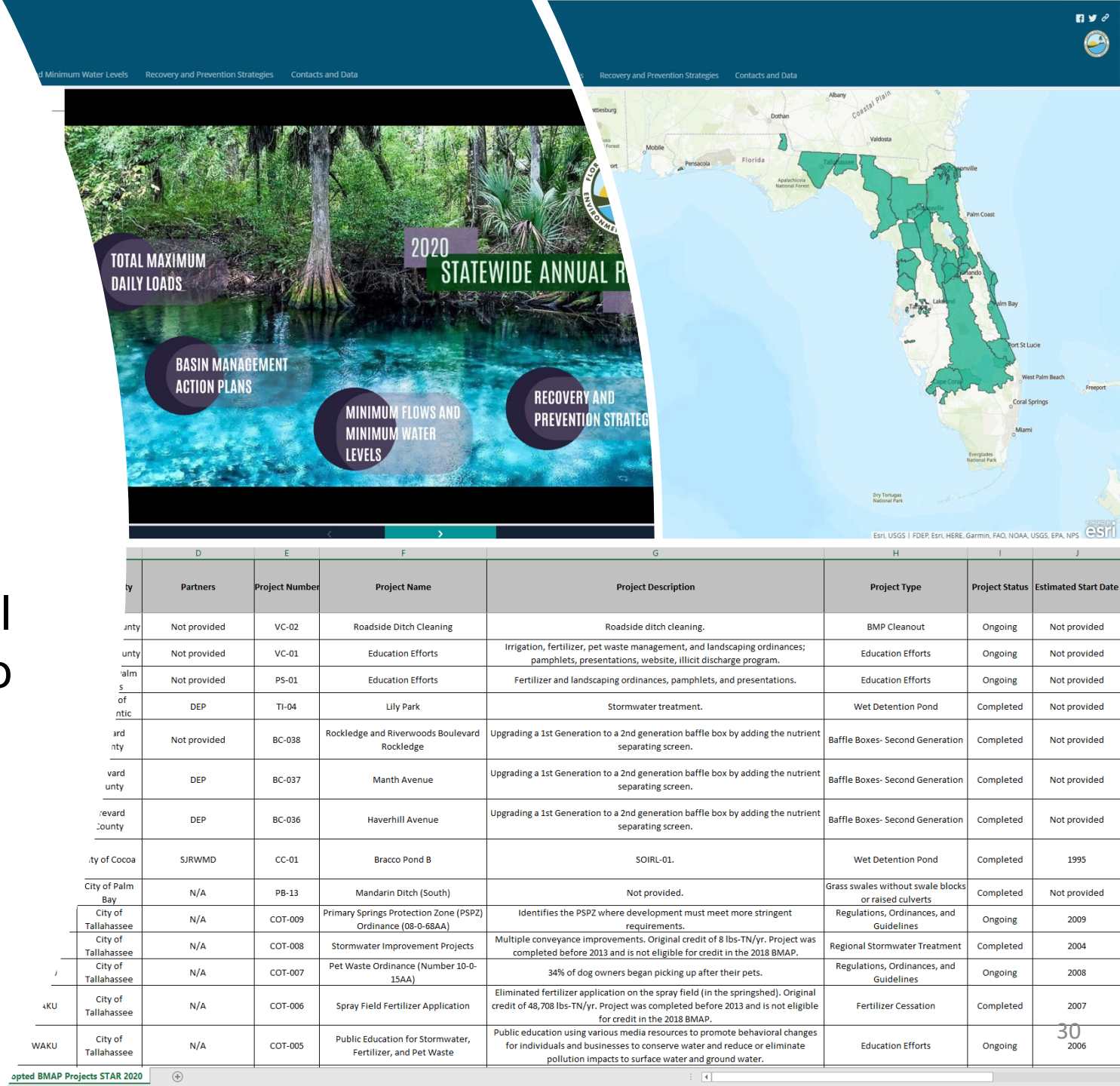
STAR Timeline





Annual BMAP Project Collection Portal

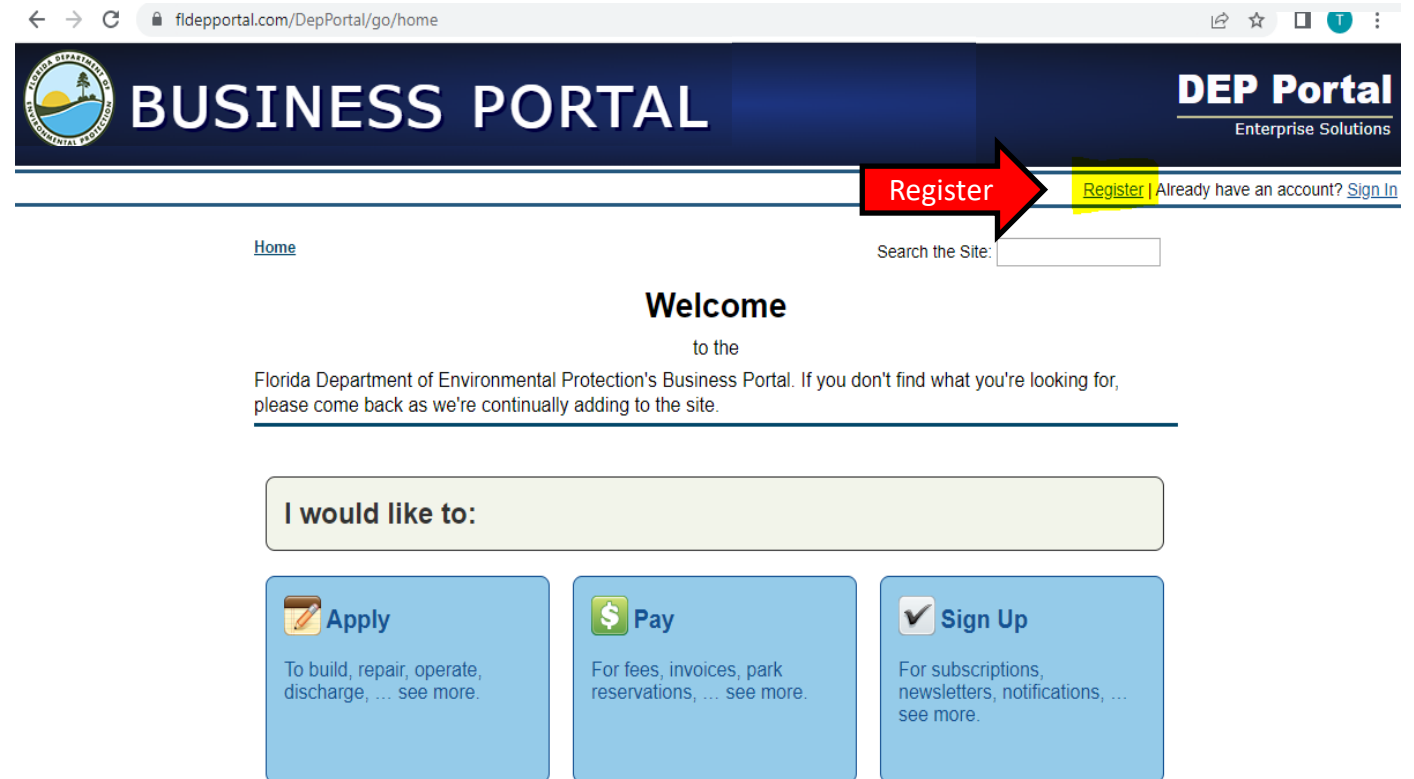
- 2015 began STAR.
- Portal pilot testing ran November 2021 – January 2022.
- For STAR 2022, all entities will be required to use the portal to review and submit project updates.





Timeline

- Stakeholders need to register in the DEP Business Portal as soon as possible, but no later than July 31.
- Trainings will be held in October.
- Portal will open in mid-November for project updates.
- BMAP projects updates will be due in the DEAR – Restoration Project Data Portal no later than January 13, 2023.





BMAP Project Collection Portal

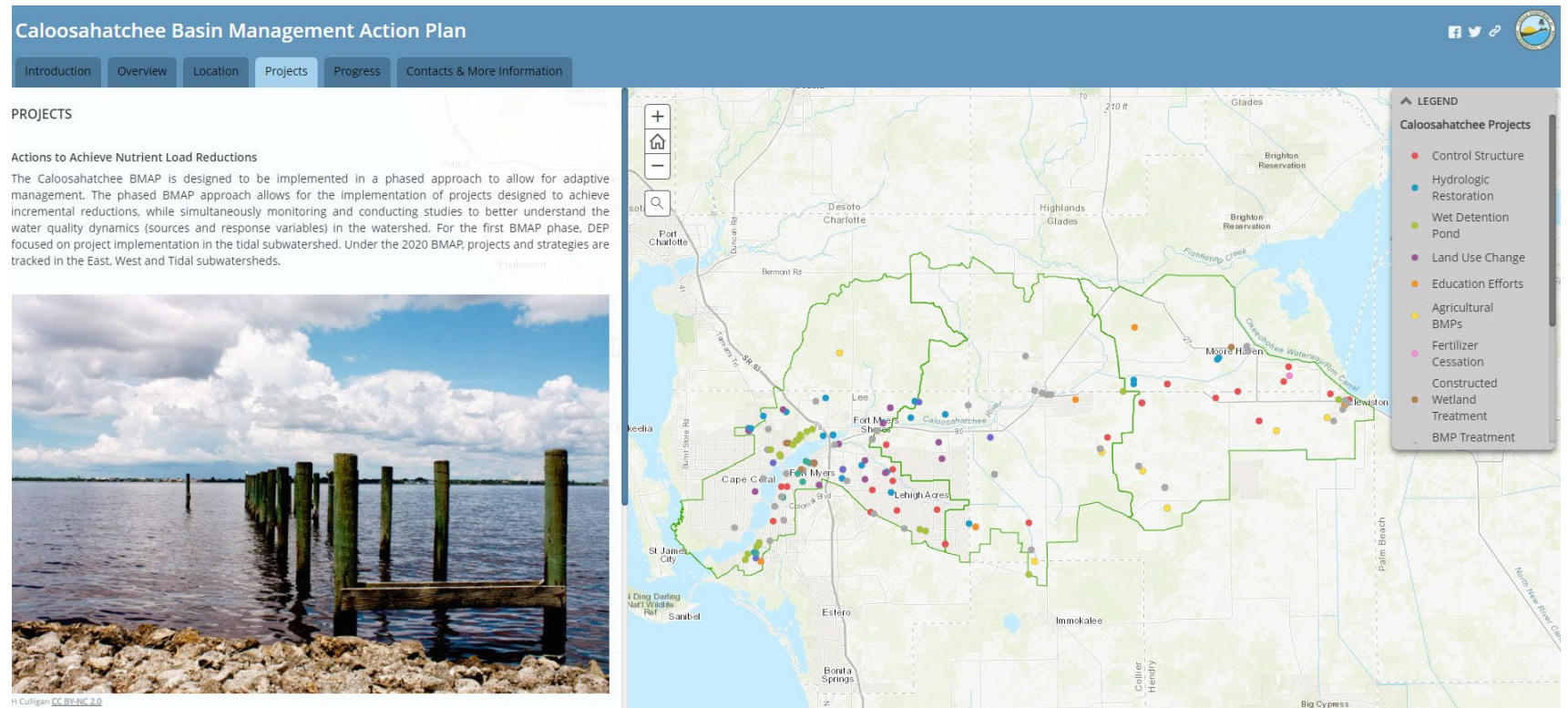


Go to <https://www.fldepportal.com/DepPortal/go/home>
or follow the QR Code above to register.



BMAP Projects

[Caloosahatchee
Basin Management
Action Plan
\(arcgis.com\)](#)



- Interactive story map with additional information on BMAP projects available online.
- Projects submitted for 2021 STAR will be added later this year.



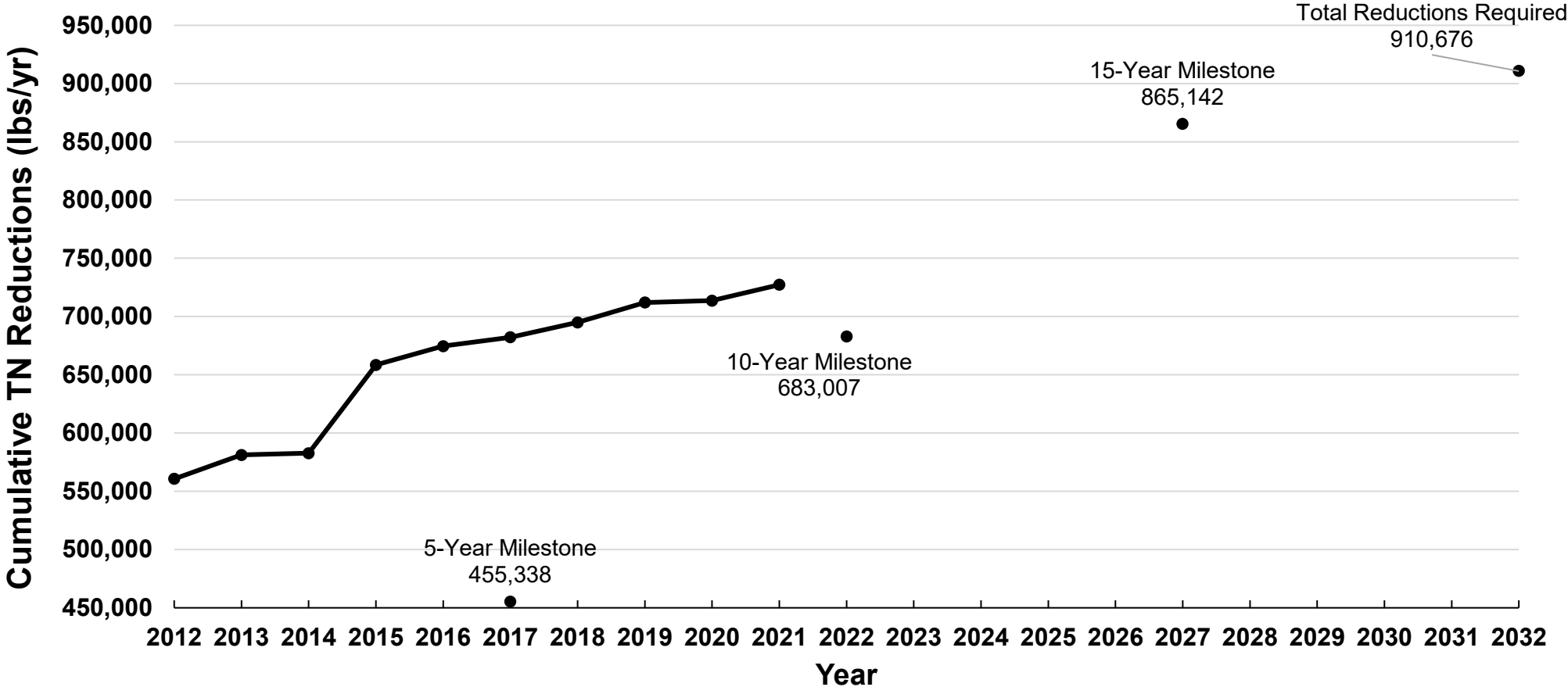
BMAP Estuary Projects

LeadEntity	Total	Completed	Planned	Underway
Agriculture	6	6		
Barron WCD	5	2	3	
Charlotte County	1	1		
City of Cape Coral	19	17	1	1
City of Clewiston	6	5		1
City of Fort Myers	16	12	3	1
City of LaBelle	5	0	2	3
City of Moore Haven	2	1	1	
Clewiston Drainage District	5	2	3	
Collins Slough WCD	5	2	3	
County Line Drainage District	5	4		1
Cow Slough WCD	5	2	3	
Devil's Garden WCD	5	2	3	
Disston Island Conservancy District	5	2	3	
FDOT District 1	31	28		3
Flaghole Drainage District	5	2	3	
Gerber Groves WCD	5	2	3	
Glades County	4	2		2
Hendry County	4	0	1	3
Hendry-Hilliard WCD	5	2	3	
LA-MSID (formerly ECWCD)	18	15	1	2
Lee County	53	42	6	5
Lucaya CDD	2	2		
Mirada CDD	2	2		
Port LaBelle CDD	1	0	1	
Portico CDD	4	4		
Sugarland Drainage District	5	2	3	
Verandah East CDD	1	1		
Verandah West CDD	1	1		
SFWMD - Coordinating Agency	7	2	4	1
Grand Total	238	165	50	23



BMAP Estuary TN Progress

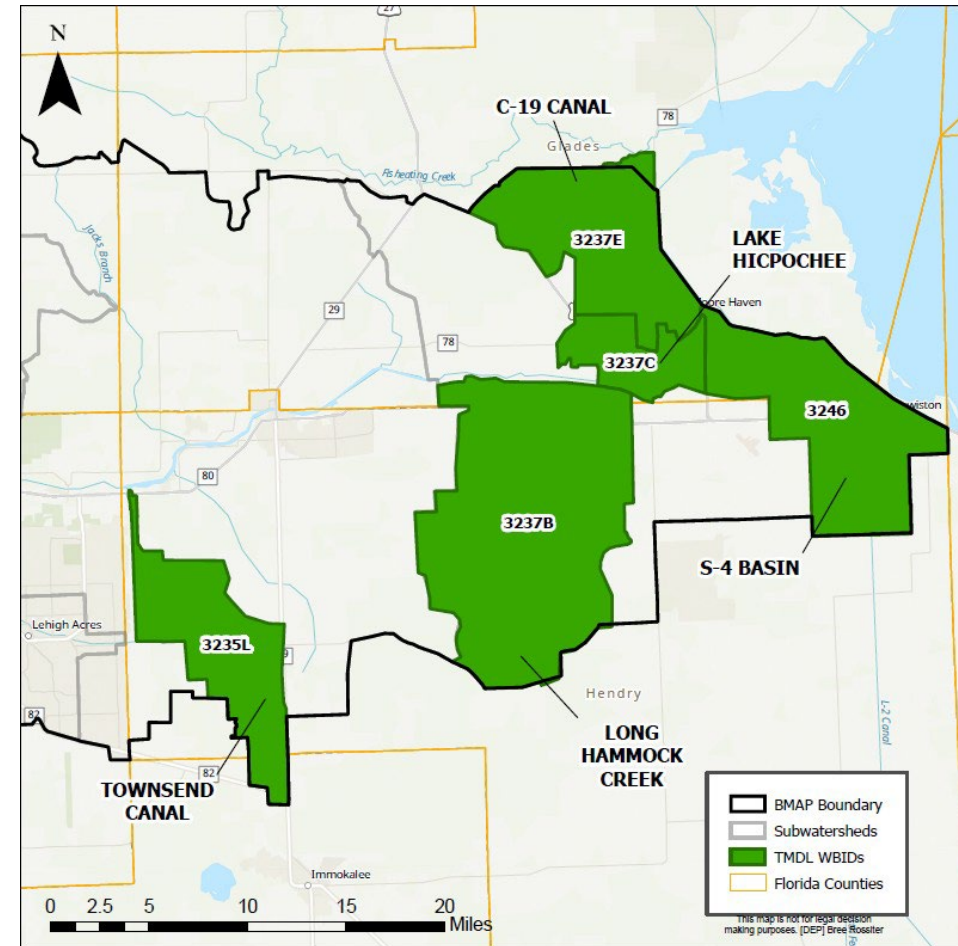
Caloosahatchee Estuary TN Project Reductions





Project Status in the Tributaries

- Tributary TMDLs were adopted in July 2019.
- BMAP currently tracks progress towards the estuary TMDL.
- Methodology to track progress towards the tributary TMDLs.





Tributary Projects

Lead Entity	Completed	Ongoing	Planned	Underway	Grand Total
Agriculture		10			10
Barron WCD	1	1	3		5
City of Clewiston	2	3		1	6
City of Moore Haven	1		1		2
Clewiston Drainage District	1	1	3		5
Collins Slough WCD	1	1	3		5
Cow Slough WCD	1	1	3		5
Devil's Garden WCD	1	1	3		5
Disston Island Conservancy District	1	1	3		5
FDOT District 1	1			1	2
Flaghole Drainage District	1	1	3		5
Glades County	5			2	7
Hendry-Hilliard WCD	1	1	3		5
Port LaBelle CDD			1		1
Sugarland Drainage District	1	1	3		5
SFWMD - Coordinating Agency	1		3	1	5
Grand Total	19	22	32	5	78



Tracking Progress in the Tributaries

Tributary	TN Required Reductions (lbs/yr)	TN Reductions Achieved (lbs/yr)	Percent Completed	TP Required Reductions (lbs/yr)	TP Reductions Achieved (lbs/yr)	Percent Completed
C-19	28,917	102	0.4%	1,457	15	1.0%
Lake Hicpochee	508	44	8.7%	27	6	22.2%
Long Hammock	183,692	155	0.1%	11,799	32	0.3%
S-4 Basin	41,401	645	1.6%	2,938	137	4.7%
Townsend Canal	94,154	0	0.0%	8,765	0	0.0%



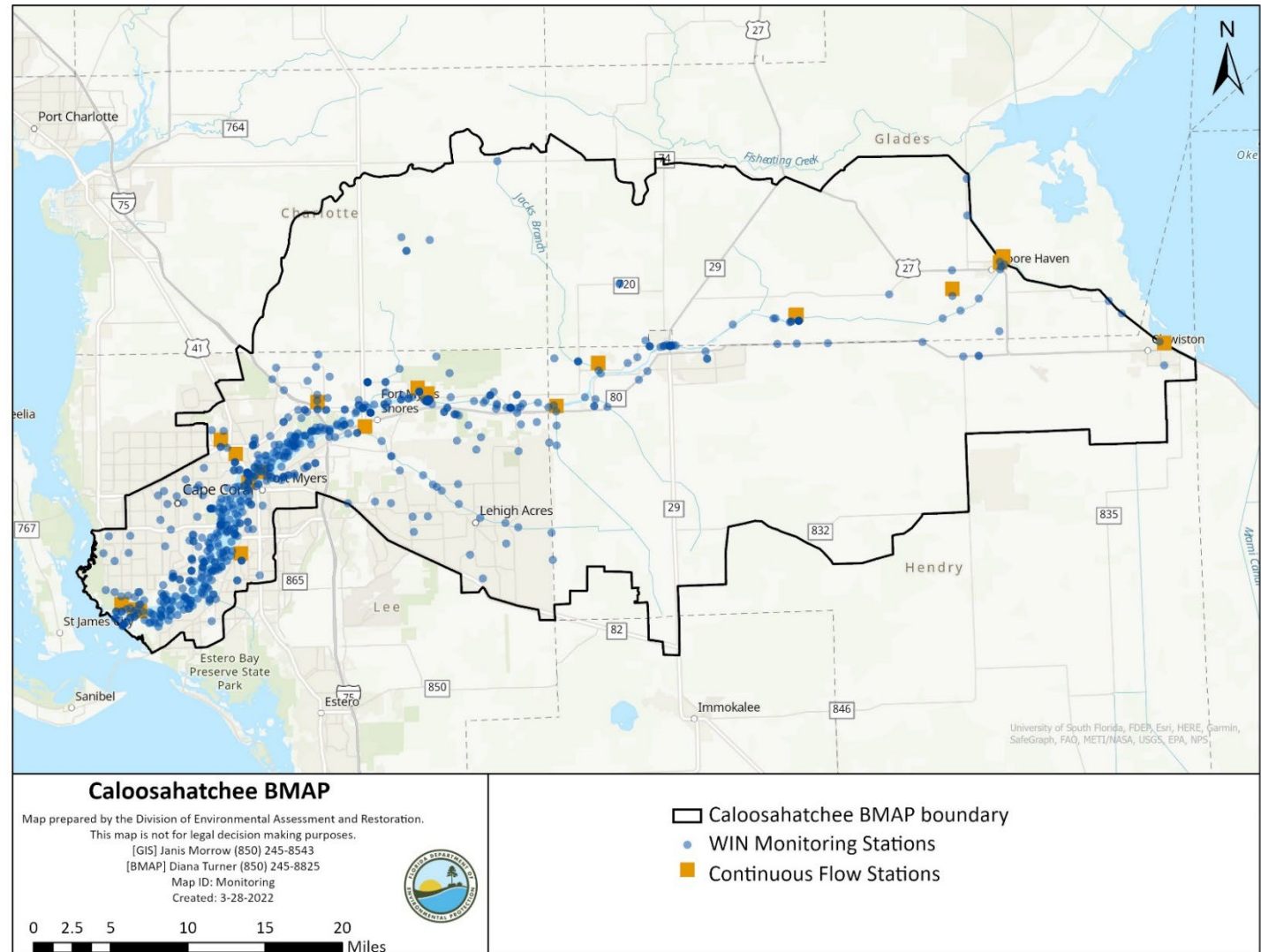
5-Year Review

- Monitoring stations
- Targeted Restoration Area (TRA) analysis
- Second 5-Year Review Coordination



Monitoring Network

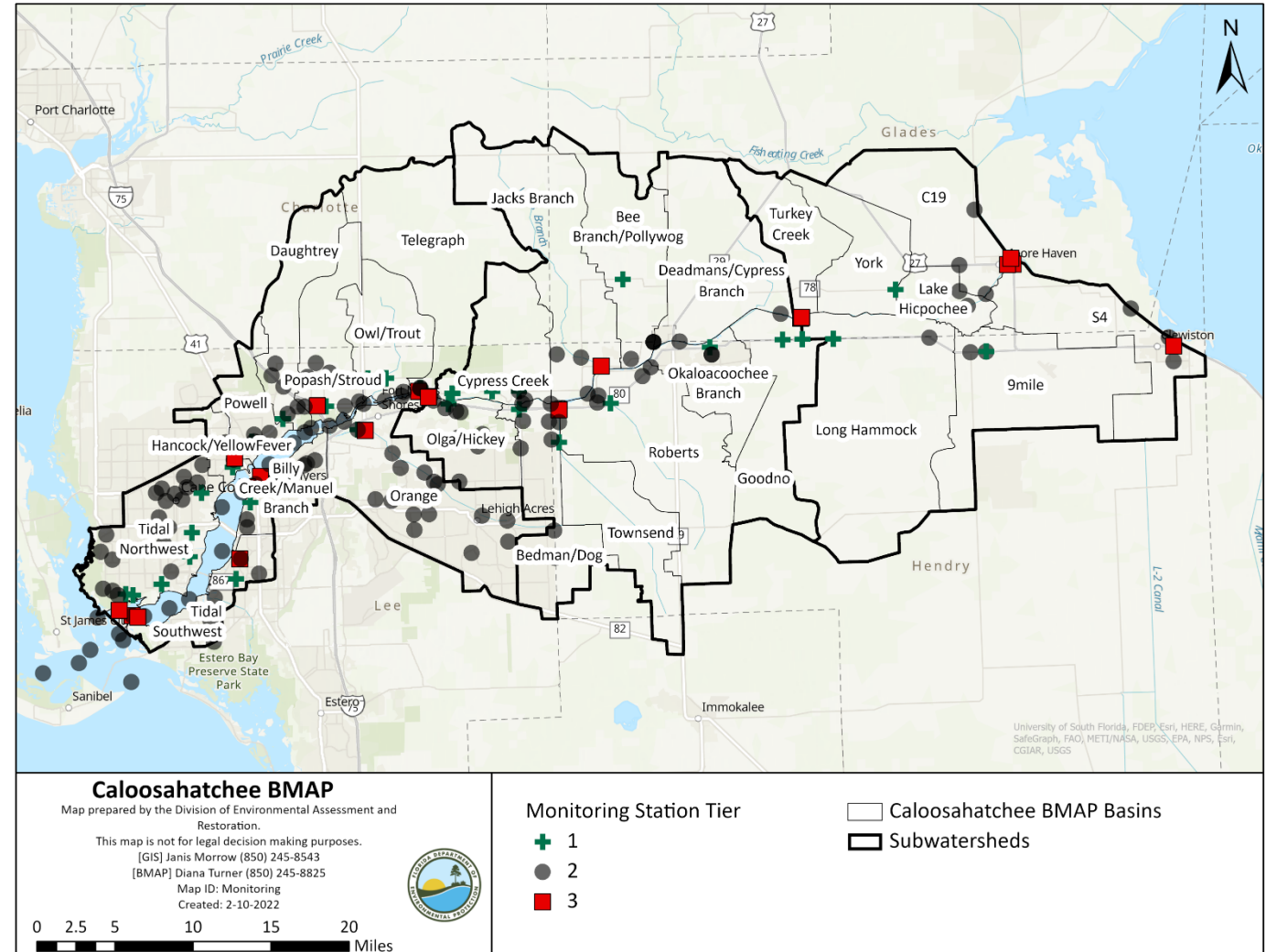
- 194 stations
- Sampled by:
 - City of Cape Coral
 - City of Fort Myers
 - DEP
 - DOH
 - LA-MSID
 - Lee County
 - Sanibel Captiva Foundation
 - SFWMD
 - SWFWMD
 - USGS
 - USACE





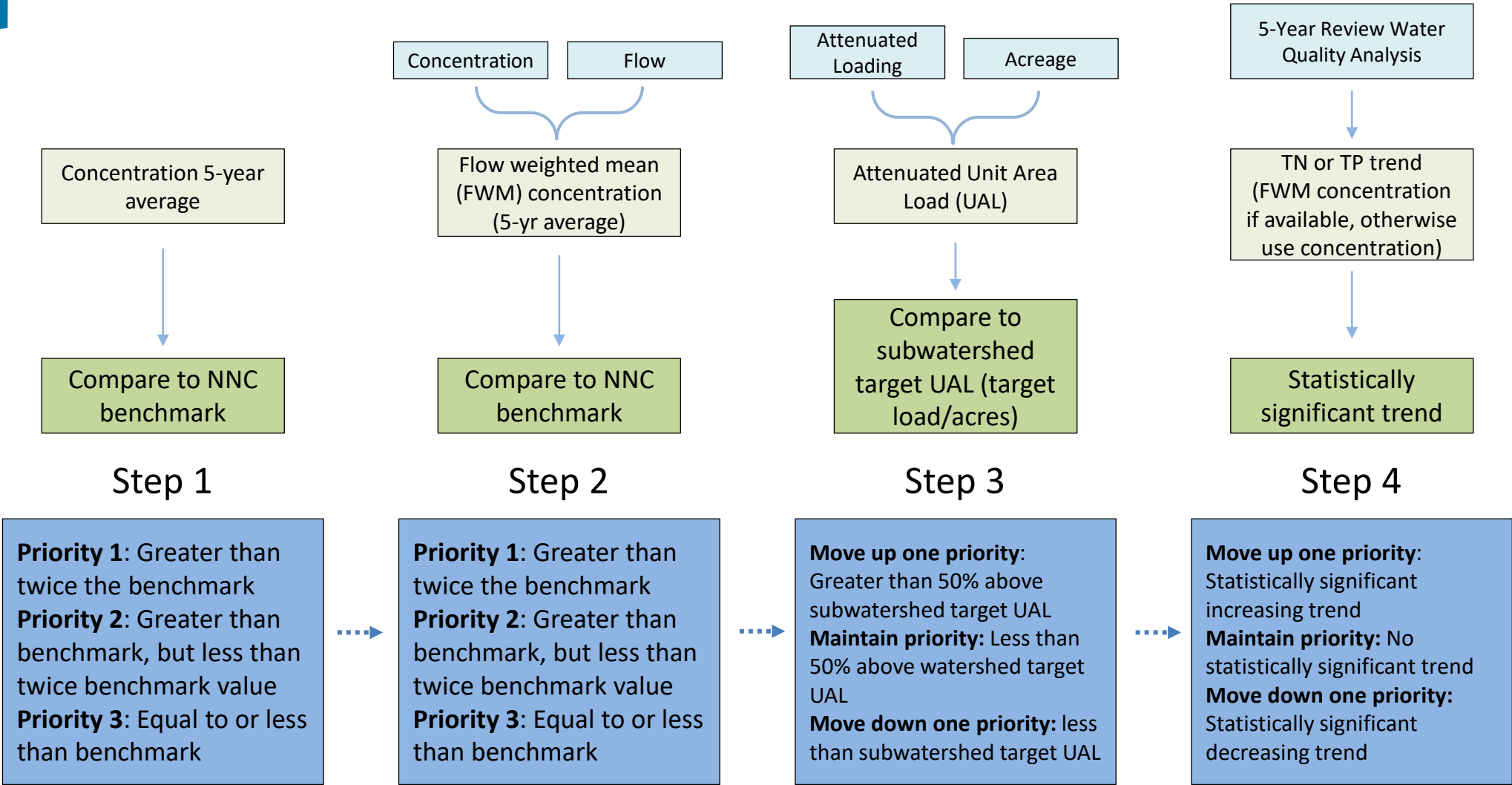
Monitoring Network: Data Gaps

- **Tier 1** stations are the primary/priority stations.
- **Tier 2** stations provide secondary information.
- **Tier 3** stations are monitored by USGS.
- Missing representative stations in:
 - **Turkey Creek**
 - **Deadmans/Cypress Branch**
 - **Roberts**





TRA Prioritization Steps



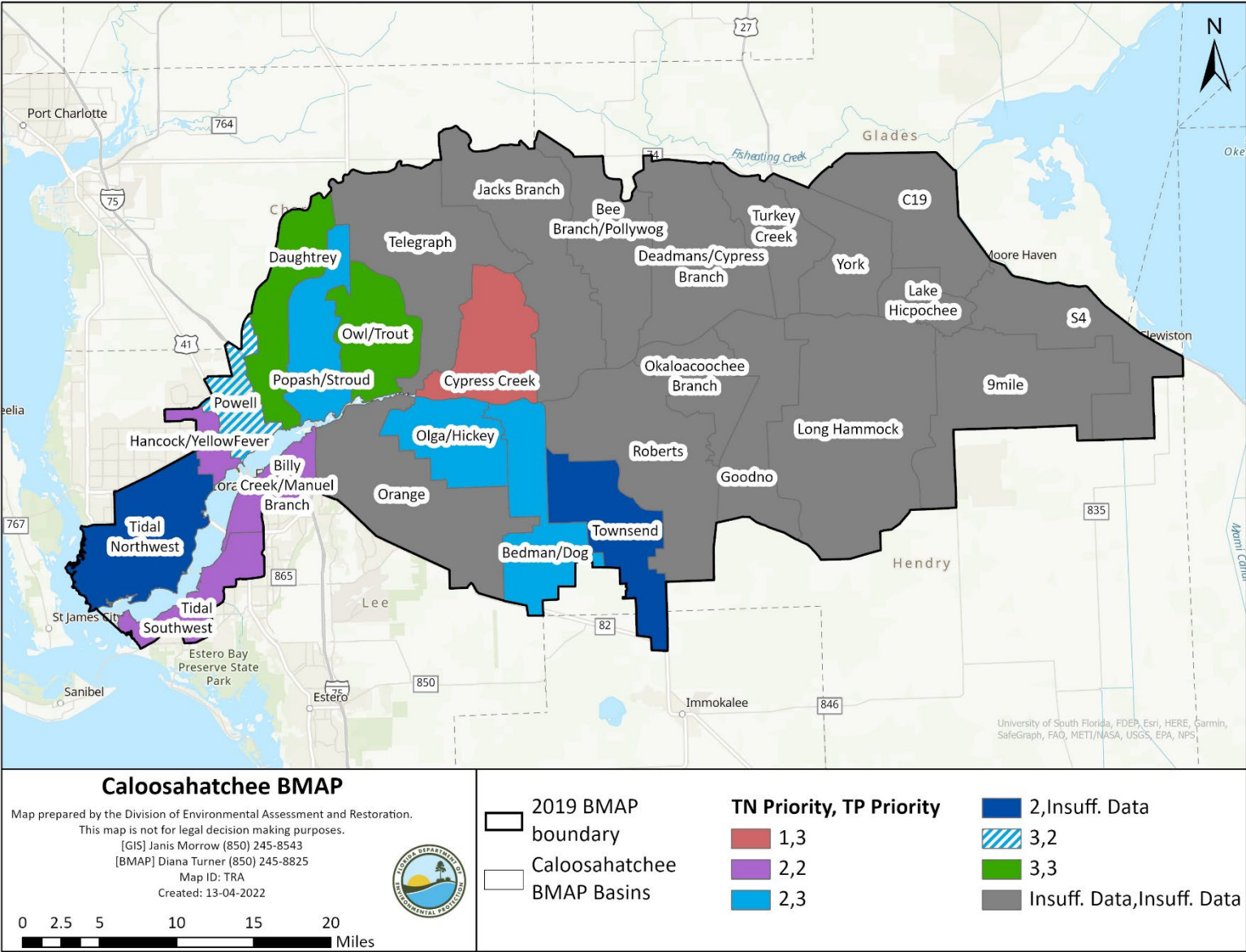


TRA Evaluation: Methodology

- Obtained data from:
 - Watershed Information Network (WIN)
 - Draft 2022 South Florida Environmental Report (SFER)
 - SFWMD
- Calculated TN where needed.
 - Used measured data for nitrate + nitrite and total Kjeldahl nitrogen (TKN).
- Updated evaluation period - Water Year (WY) 2017-2021.
 - Dropped WY2016 and added WY2021.



TRA Results





TRA Results Summary

- Daughtry and Owl/Trout are lowest priority for TN and TP.
- Basins in Tidal subwatershed are either a lower priority or missing data.
- Cypress Creek has the highest priority for TN, low priority for TP.
- Insufficient data mostly due to new monitoring.
 - Started 2018 or 2020.
 - Lack 5-year average.
 - Exceptions with three previously mentioned basins.



5-Year Review Coordination

- Review deadline is December 2022.
- Will be meeting throughout year to work on coordination on updates.
- Will include Background, Progress, and Recommendation sections.
- Stakeholder input on recommendations is **crucial**.





Next Steps

- Clean Waterways Act



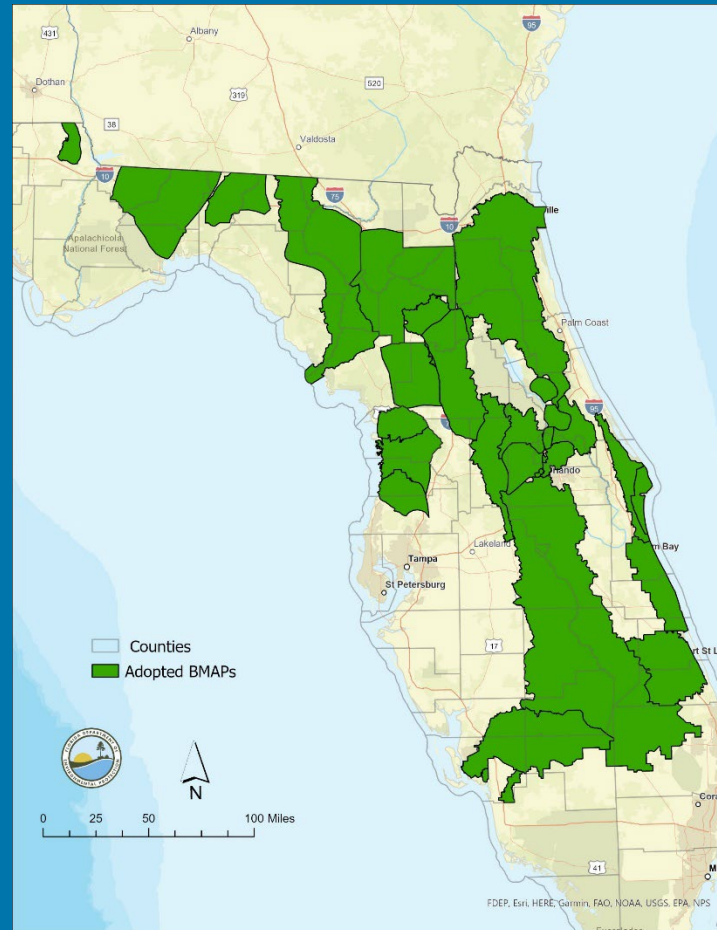
Clean Waterways Act Requirements

[publicfiles.dep.state.fl.us - /DEAR/BMAP/2025 BMAP Updates/Meetings/2022/Clean Waterways Act WWTF and OSTDS Requirements](https://publicfiles.dep.state.fl.us/-/DEAR/BMAP/2025%20BMAP%20Updates/Meetings/2022/Clean%20Waterways%20Act%20WWTF%20and%20OSTDS%20Requirements) March 31/

Wastewater Treatment Plans

- Inventory of WWTFs within jurisdiction of local governments
- Summary of each facility's current status, which may include:
 - Permitted capacity
 - Average discharge
 - Permitted nutrient limits
 - Average nutrient concentration
 - Estimated average nutrient load
- Summary of capacity analysis for each facility
 - Including plans for future growth
- Ranking or list of facility upgrades needed to meet requirements
- Timelines/milestones for all projects
- Funding estimates for all projects

Nutrient BMAPs



Adopted by July 1, 2025

OSTDS Remediation Plans

- Inventory of OSTDS within jurisdiction of local governments
- Plan to address OSTDS in the future
 - Areas for sewerage and/or enhancements & prioritization of those areas
 - Summary of capacity analysis for wastewater facilities that would accept newly sewerage areas
 - Timelines/milestones for projects
 - Funding estimates for all projects
 - Future growth considerations



FDACS Updates



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Caloosahatchee River & Estuary BMAP Annual Meeting

May 13, 2022

Jennifer Thera

Florida Department of Agriculture and Consumer Services

Office of Agricultural Water Policy



Florida Department of Agriculture and Consumer Services

Overview

- Agricultural Best Management Practices (BMP)
- FDACS Role in BMP Implementation
- Enrollments within the Caloosahatchee Basin
- BMP Implementation Verification (IVs)
- Research Program
- Legislative Report



Agricultural Best Management Practices

- Management strategies, tools and practices that improve water quality, conserve water, enhance soil health and protect water resources
- Based on the best available science and technology
 - Work closely with FDEP staff
- Must balance production and water resource protection



Benefits of Agricultural Best Management Practices

- Increase efficiencies in nutrient, irrigation and water management
- Conservation and protection of water and environmental resources
- Improve soil health
- Promote groundwater recharge
- Enhancing wildlife habitat

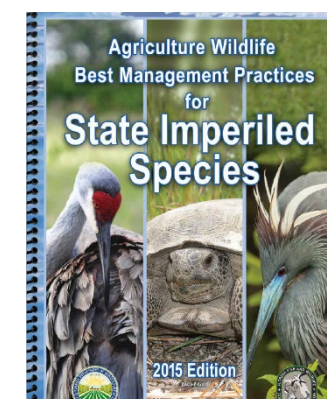
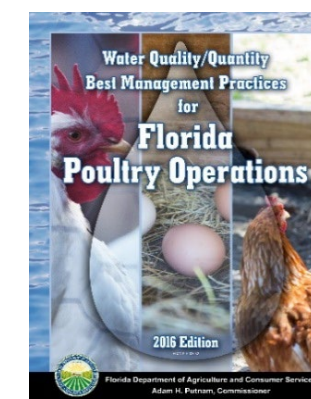
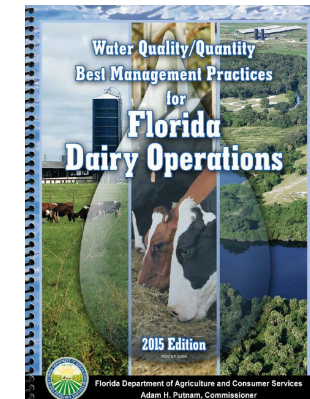
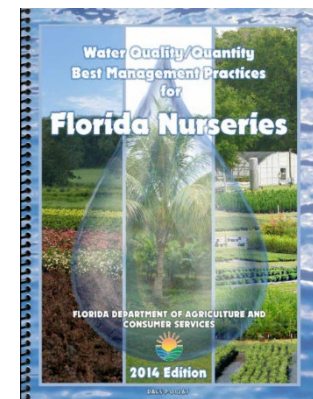
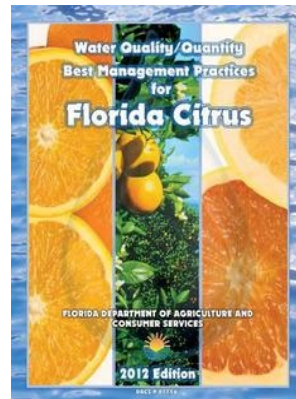
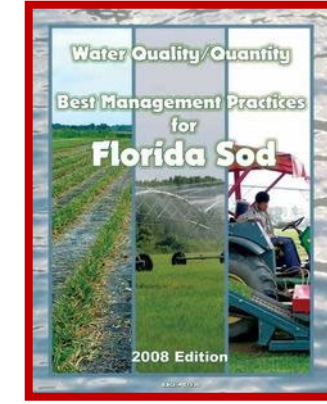
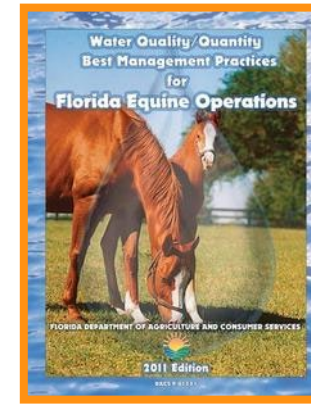
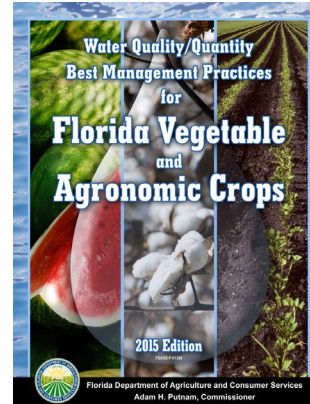
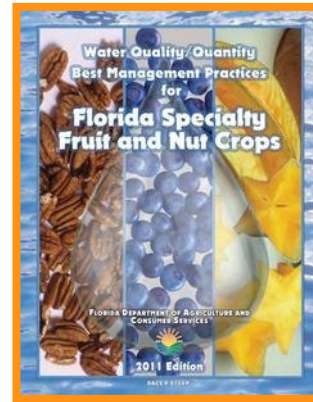
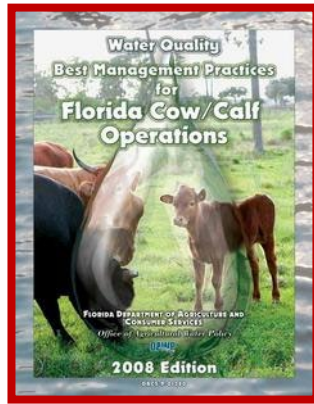


FDACS Role in BMP Implementation

- Develop BMPs in Manuals and adopt BMPs by Rule
- Assist Producers with BMP Enrollment
- Identify and support targeted cost-share of select BMPs
- Fund research to develop new, innovative BMPs that improve nutrient and irrigation use efficiencies
- Verify proper implementation through site visits and record review



Adopted BMP Manuals



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 Caloosahatchee BMAP

	Tidal Caloosahatchee	West Caloosahatchee	East Caloosahatchee
Total Ag Acres	58,337	191,753	194,548
Enrolled Ag Acres	49,337	151,249	176,939
Percent Enrolled	85%	79%	91%
Total Irrigated Ag Acres	6,031	62,623	119,389
Enrolled Irrigated Ag Acres	5,628	56,602	112,150
Percent Enrolled	93%	90%	94%

BMP enrollment as of Dec 2021 and the 8th Florida Statewide Agricultural Irrigation Demand ([FSAID](#)) Geodatabase



Agricultural Acres Enrolled within Caloosahatchee BMAP

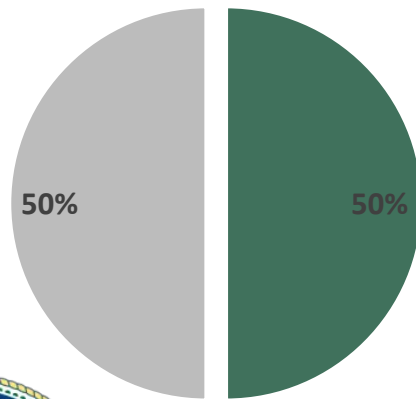
BMP Manual	Acres
Citrus	52,678
Conservation Plan	43,853
Cow/Calf	98,537
Fruit & Nut	349
Multiple Commodities	93,932
Nursery	676
Poultry	56
Row/Field Crops	86,336
Sod	941
TOTAL	377,358



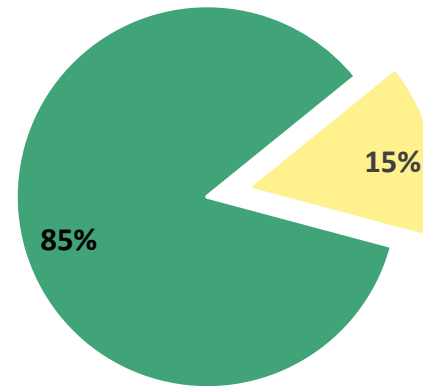
Agricultural Lands within Caloosahatchee BMAP

Non-Agricultural Acres	Agricultural Acres	Enrolled Agricultural Acres	Remaining Agricultural Acres	Unlikely Enrollable Acres	Potentially Enrollable Acres
449,306	444,635	377,358	67,277*	13,966	36,603

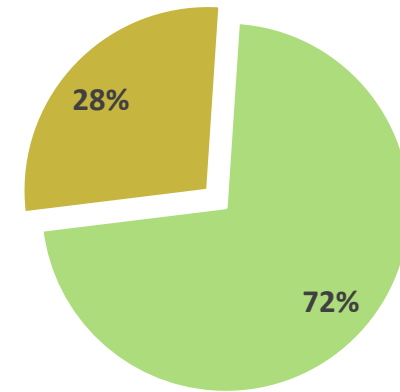
Non-Ag Acres vs.
Ag Acres



Enrolled Ag Acres vs.
Remaining Ag Acres



Unlikely Enrollable Acres
vs. Potentially Enrollable
Acres

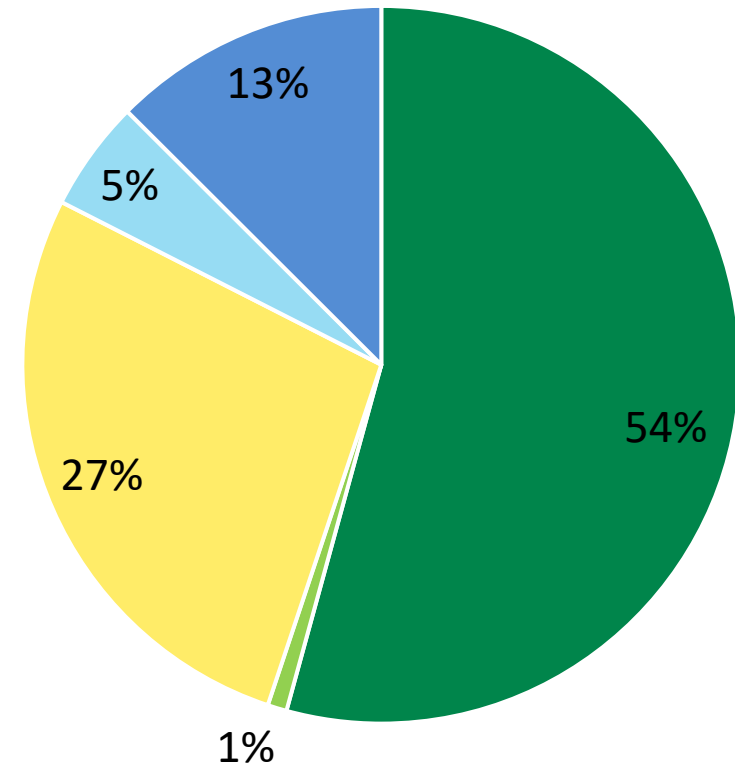


*This value includes 16,568 acreages within state-owned properties and/or surface water project areas that are not included in the 'unlikely enrollable' or 'potentially enrollable' acres categories

Unlikely Enrollable Agricultural Lands within Caloosahatchee BMAP

Remaining Acreage: Unlikely Ag Breakdown

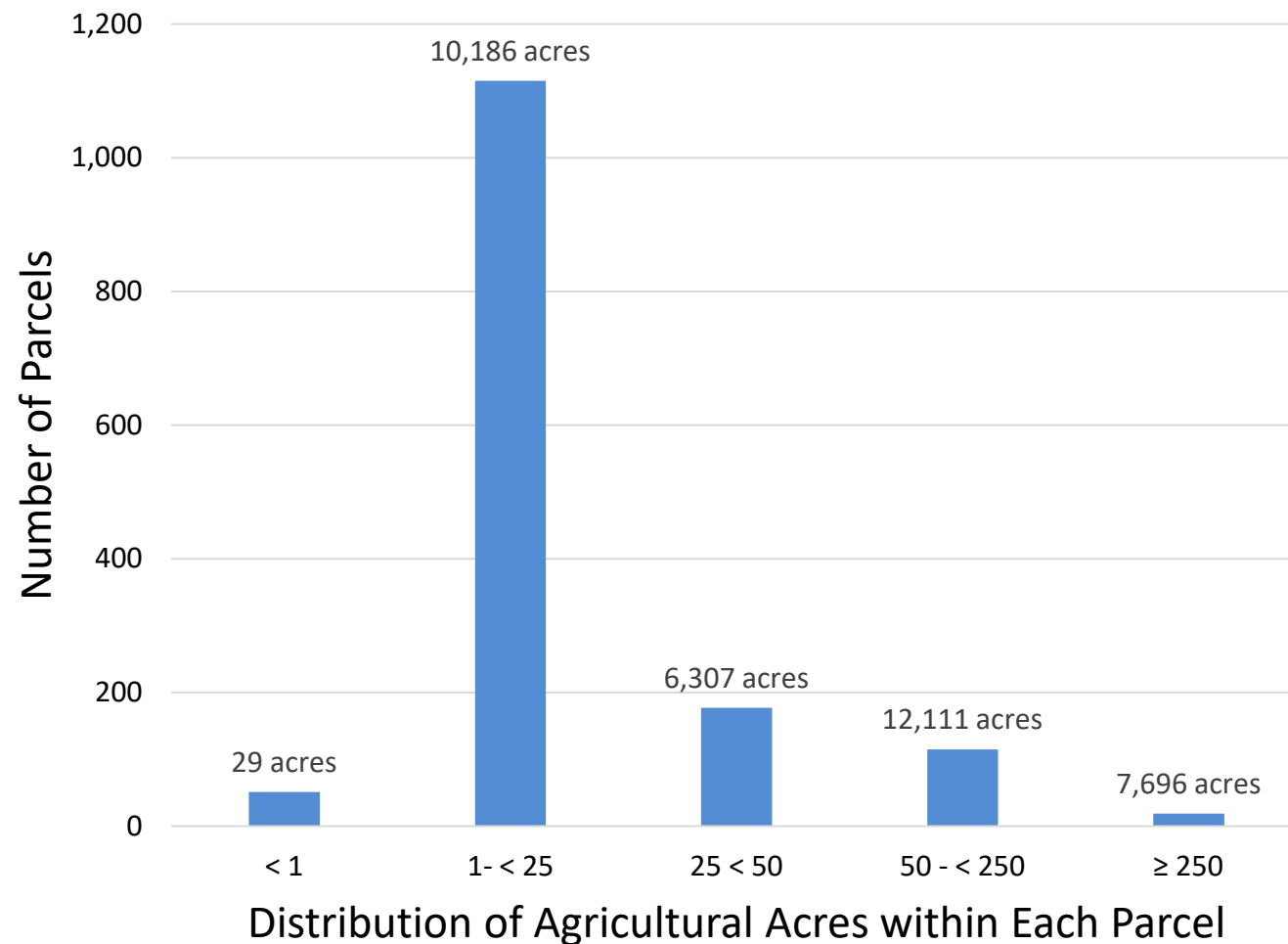
Category	Acres
State Lands, CERP, Surface Water Projects	16,568
Timberland and Aquaculture	264
DOR Use Code 70-99 (industrial or institutional use, acreage not zoned agricultural), Non-Ag Entity	8,395
Missing Parcel Information, Slivers, No Overlap	1,523
No or Conflicting Ag Tax Class or DOR Land Use	3,823



Potentially Enrollable Agricultural Lands within Caloosahatchee BMAP

Ag Acres within Parcel	Parcel Count	Total Ag Acres
< 1	51	29
1 - < 25	1,115	10,186
25 - < 50	177	6,307
50 - < 250	115	12,111
≥ 250	19	7,696

Potentially Enrollable Acres: 36,603



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
 - 95% 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



OAWP Implementation of SB 712

Producer Outreach

- FAQs Document
- Technical Assistance under development
- Video Assistance
 - [OAWP YouTube Playlist](#)
- Continued collaboration with UF/IFAS Extension to raise awareness



Commissioner Nicole "Nikki" Fried

Pay/Register Online Forms By Topic Our Department

Home / Agriculture Industry / Water / Agricultural Water Policy FAQ

Agricultural Water Policy FAQ

Frequently asked questions about the Florida Department of Agriculture and Consumer Services' (FDACS) Office of Agricultural Water Policy, Best Management Practices (BMPs), and other topics

For information on the passage of Senate Bill 712 and new requirements for agricultural producers and landowners enrolled in the FDACS BMP program, see our [Senate Bill 712 FAQ](#) [PDF 2.7 MB].

For more information about BMPs, see our [Agricultural BMPs FAQ](#) [PDF 1.4 MB].

Select a question below to expand the answer.

- > What programs are administered by the FDACS Office of Agricultural Water Policy?
- > What is a BMP?
- > Are landowners required to implement BMPs?
- > How are BMPs adopted?
- > Does the FDACS Office of Agricultural Water Policy participate in BMP research and demonstration projects?

Water

- [Agricultural Best Management Practices](#)
- [Agricultural Permit Exemption Determinations](#)
- [Agricultural Water Policy FAQ](#)
- [Agricultural Water Supply Planning](#)
- [Mobile Irrigation Labs](#)
- [Office of Agricultural Water Policy](#)

OAWP Research Program

Build and maintain a BMP Research Program [s. 403.067(7)(c)3., F.S. and 373.813 F.S.]

FDACS OAWP supports research to provide the scientific and technical justification for the BMP program and to investigate new, innovative practices that improve nutrient and irrigation use efficiencies. Studies must address at least one OAWP research priority.

For information, visit the FDACS BMP Research website:

<https://www.fdacs.gov/Agriculture-Industry/Water/Agricultural-Best-Management-Practices/BMP-Research>



Florida Department of Agriculture and Consumer Services

Current OAWP Research Priorities

- **Nutrient management systems**
 - **Agonomic rate recommendations** that balance production with water resource protection through the inclusion of water quality monitoring
 - **Soil and tissue test calibrations and correlations**
 - **Controlled Release Fertilizer use efficiency**
 - **Fertigation to improve nutrient use efficiency**
 - **Software and data collection tool development**
- **Irrigation application and management technologies**
- **Water resource protection** using methods and treatment technologies for on-farm or edge-of-farm
- **Soil Health** specific to Florida
 - **Mixed species or cover crops for improving nutrient utilization**
 - **Rotational cropping or integrated crop/livestock systems for improving nutrient utilization**
- **Demonstrations of water quality improvement** projects that provide information on FDACS BMP benefits to water resources with specific reductions in nutrients (lbs/ac) and quantities of water savings



2021 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

July 1, 2021

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. 07/21



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

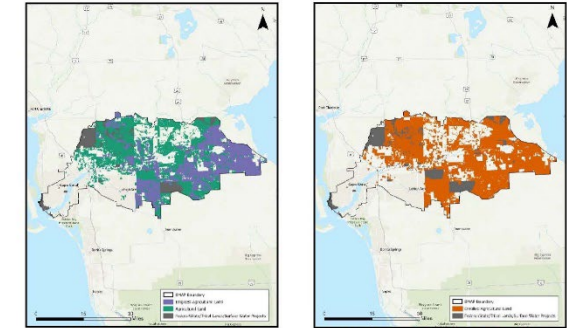
Enrollment Summary	2020
Total agricultural acres statewide	7,582,111
Total acres enrolled	4,672,975
Percentage of agricultural acres enrolled	62%
Total irrigated acres	1,877,118
Total irrigated acres enrolled	1,534,442
Percentage of irrigated acres enrolled	82%

FSAID Agricultural Acres Enrolled

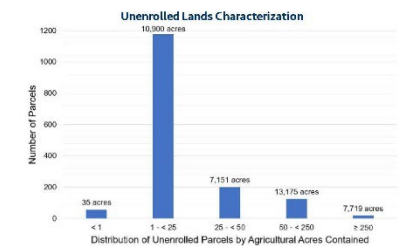
BMP Manuals	Acres
Citrus	490,788
Conservation Plan Rule	182,295
Cow/Calf	1,952,719
Dairy	54,550
Equine	20,758
Fruit & Nut	20,593
Lake Okeechobee Protection Plan (LOPP)	21,707
Multiple Commodities	777,918
Nursery	33,828
Poultry	1,235
Row/Field Crops	1,067,891
Sod	33,887
Wildlife	14,660
Temporarily Inactive	146
TOTAL	4,672,975

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Status of Implementation of Agricultural Best Management Practices (BMPs) in the Caloosahatchee Estuary Basin²⁷



Enrollment and Response Summary	2020	2020 Percent Enrolled
Total agricultural acres in the BMAP	451,171	84
Total agricultural acres enrolled	378,377	
Total irrigated acres	190,588	94
Total irrigated acres enrolled	178,658	
Number of NOIs within BMAP	478	
Completed IV site visits	41	



Agricultural Acres Enrolled

BMP Manuals	Acres
Citrus	61,449
Conservation Plan	43,847
Cow/Calf	96,901
Dairy	1,144
Equine	0
Fruit and Nut	178
Multiple Commodities	76,229
Nursery	667
Poultry	40
Row/Field Crops	96,314
Sod	1,608
TOTAL	378,377

²⁷ Characteristics and metrics for this BMAP are significantly different in this report as the BMAP area was expanded in the 2020 BMAP update. The Federal and State lands identified on the maps in gray areas were initially considered agriculture. These lands are not expected to contain agricultural activities.

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<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
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Florida Department of Agriculture and Consumer Services



Agriculture Enforcement Update



David Frady

Program Administrator

DEP Division of Environmental Assessment and Restoration

David.Frady@FloridaDEP.gov



Unenrolled Agricultural Producer Enforcement

David Frady, Ph.D.
Program Administrator

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection



Unenrolled Agricultural Producer Enforcement

FDACS Identifies non-compliant producers

- FDACS uses various database to identify parcels within a BMAP that may be agricultural operations

FDACS refers non-compliant producers to FDEP for enforcement

- After confirming agricultural activity and attempting to enroll the producer in the BMP program, FDACS refers non-compliant producers to FDEP for enforcement

FDEP conducts outreach and engagement to bring producers into compliance

- It saves taxpayers money and is better for the environment to bring producers into compliance quickly through education and outreach efforts prior to taking formal enforcement action against small farmers

FDEP Initiates enforcement action

- If an agricultural producer fails to come into compliance, DEP initiates a civil suit to compel them to come into compliance
- FDEP is prioritizing enforcement actions based on parcel size and impact to the environment



Outreach and Engagement Has Been Successful

- More than 69% of the unenrolled agricultural parcels identified by FDACS and referred to FDEP have been brought into compliance
 - That is more than 83% of the total acres
- There are no parcels greater than 100 acres out of compliance and the majority are smaller than 10 acres
- FDEP is engaged in an ongoing campaign to educate landowners of their requirements and bring them into compliance quickly through additional outreach and on-site visits



THANK YOU

David Frady

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection

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Meeting materials will be available to download here:

http://publicfiles.dep.state.fl.us/dear/BMAP/Caloosahatchee/Meetings/2022_05_13_Annual_Meeting/

