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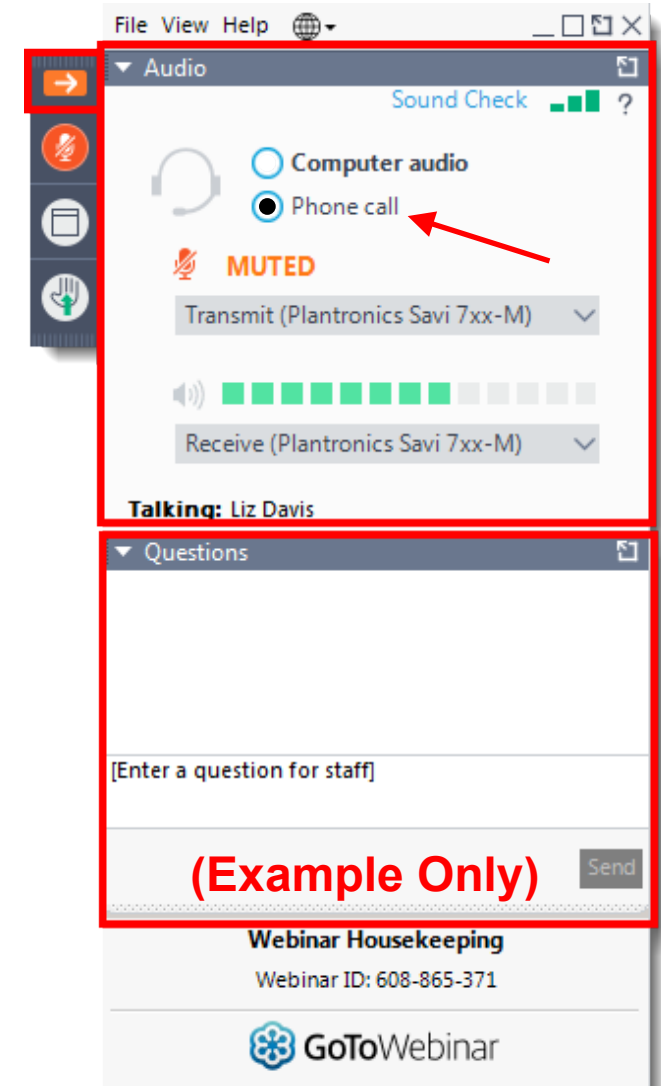
- Choose Computer Audio or
- Choose Phone Call and dial using the information provided with your registration

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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.





INDIAN RIVER LAGOON (IRL) BASIN MANAGEMENT ACTION PLANS (BMAPS) ANNUAL MEETING

Diana Turner

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection

GoToWebinar | April 25th, 2024



INDIAN RIVER LAGOON BMAPS ANNUAL MEETING



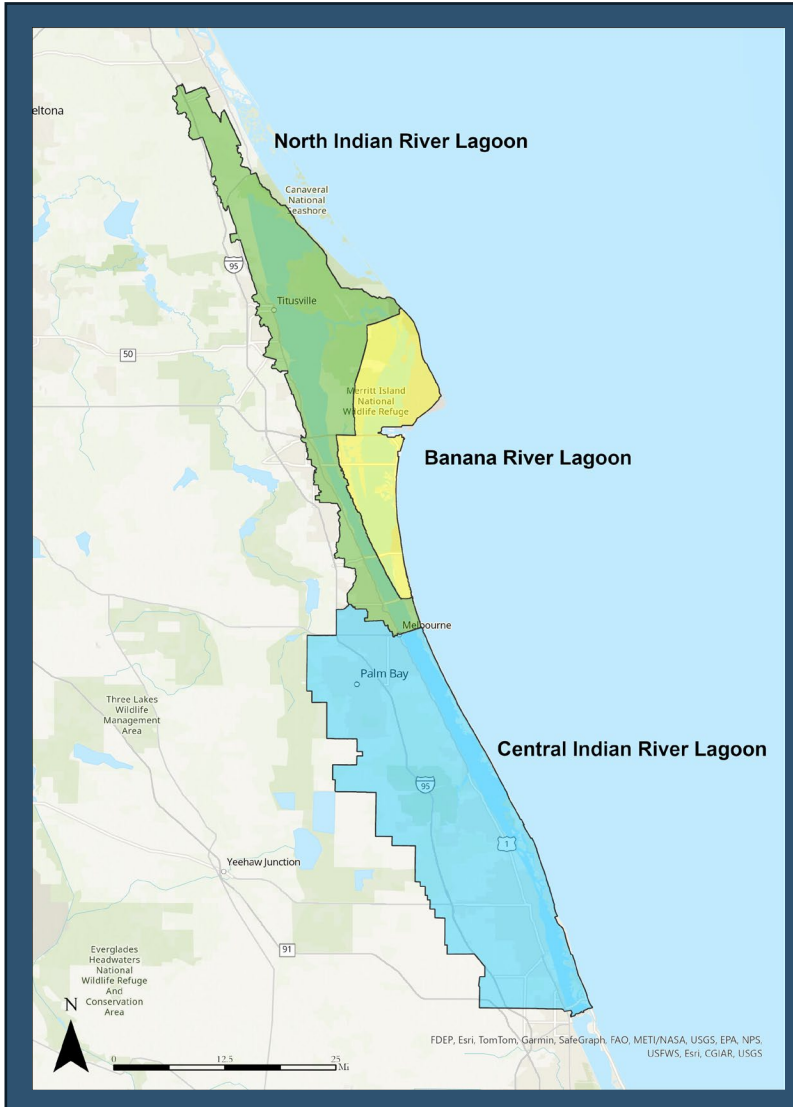
Source: SJRWMD

Agenda

- Background.
- St. Johns River Water Management District (SJRWMD) Updates.
- Statewide Annual Report (STAR).
- Annual Progress.
- Upcoming BMAP Update.
- Florida Department of Agriculture and Consumer Services (DACS) Updates.



INDIAN RIVER LAGOON BMAPS BACKGROUND



- 2021 IRL BMAPs Updates:
 - Wastewater limits implemented.
 - Allocations developed for all three BMAPs.
 - Milestones established.
 - Monitoring network solidified.



INDIAN RIVER LAGOON BMAPS BACKGROUND

Seagrass Deep Edge Assessment Data Collection – Aerial Surveys

- Conducted in seasonal window:
 - Spring – early summer.
 - About every two years.
- Aerial imagery is used to create a complete map of seagrass in the lagoon.
- Ground truthing of photographs.
 - Field Sampling Transects:
 - During aerial surveys.
 - Additional independent collection in season and off season.





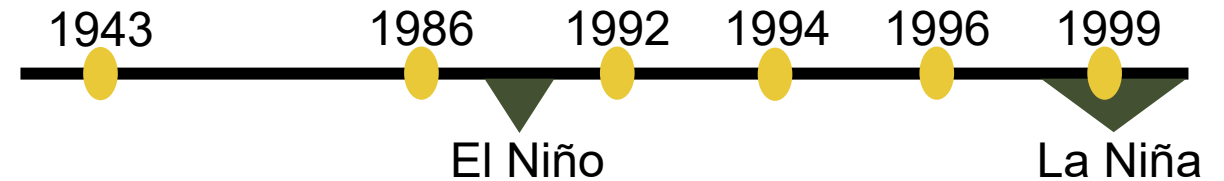
INDIAN RIVER LAGOON BMAPS BACKGROUND

Seagrass Deep Edge Assessment Total Maximum Daily Load (TMDL) Targets



Source: SJRWMD

- Depth targets based on coverage from:



- Focus on 90% of the seagrass recovery estimate
- 2-step evaluation process
 - If the project zone is compliant with both steps, the project zone is achieving the TMDL depth target

Climate Data:

https://origin.cpc.ncep.noaa.gov/products/analysis_monitoring/ensostuff/ONI_v5.php



STORYMAP

INDIAN RIVER LAGOON BMAPS

Introduction

Welcome to the Central Indian River Lagoon Basin Management Action Plan (BMAP) 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 reduction 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 adopted by DEP Secretarial Order and are legally enforceable.

This Story Map reflects the status of BMAP projects most recently published in the Statewide Annual Report ([**STAR**](#)). Please use the tabs above to navigate through this Story Map and learn more about the Central Indian River Lagoon BMAP.



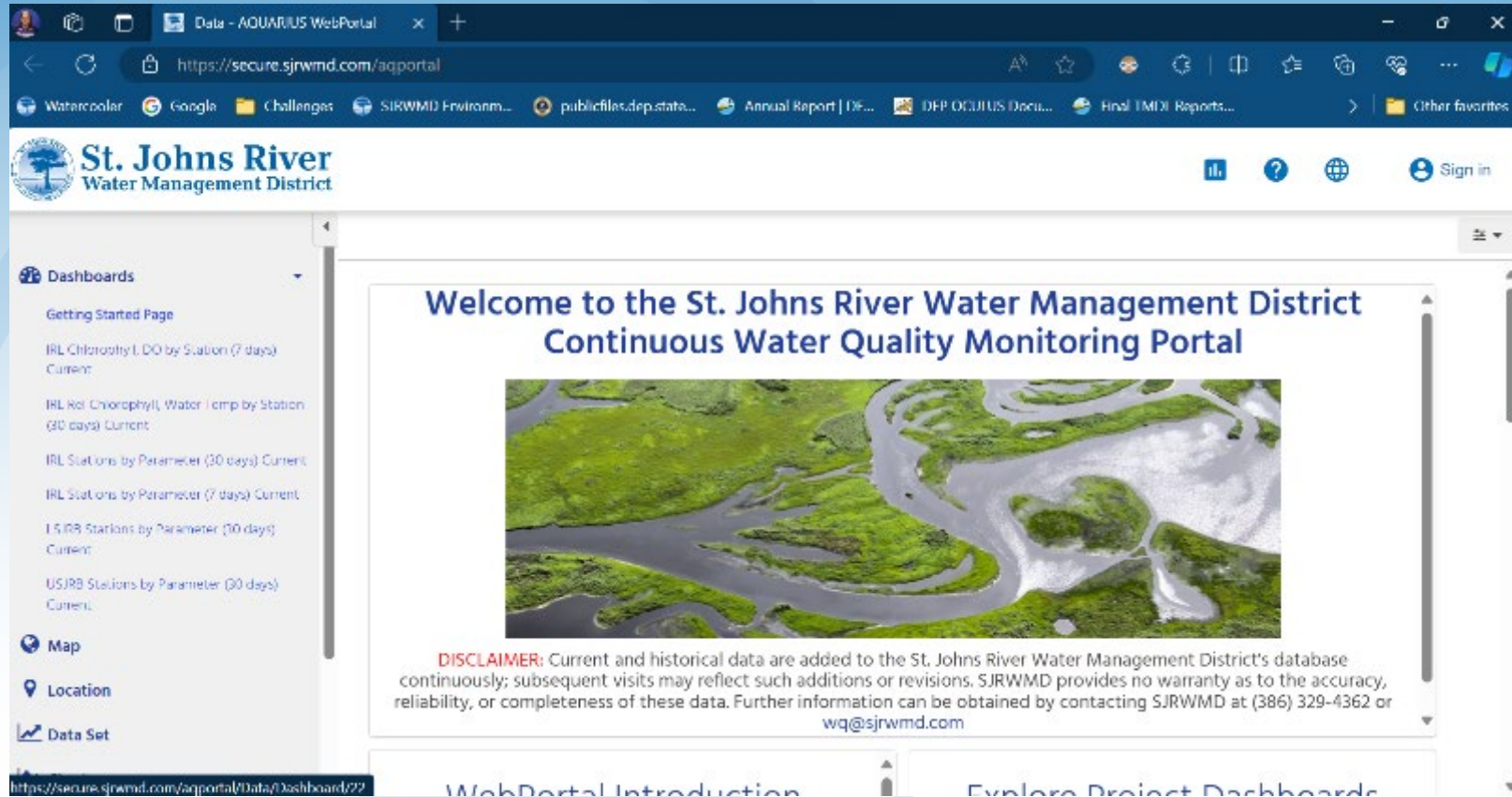
Indian River Lagoon Water Quality Resources

Stacy Cecil and Lauren Hall
Bureau of Environmental Sciences

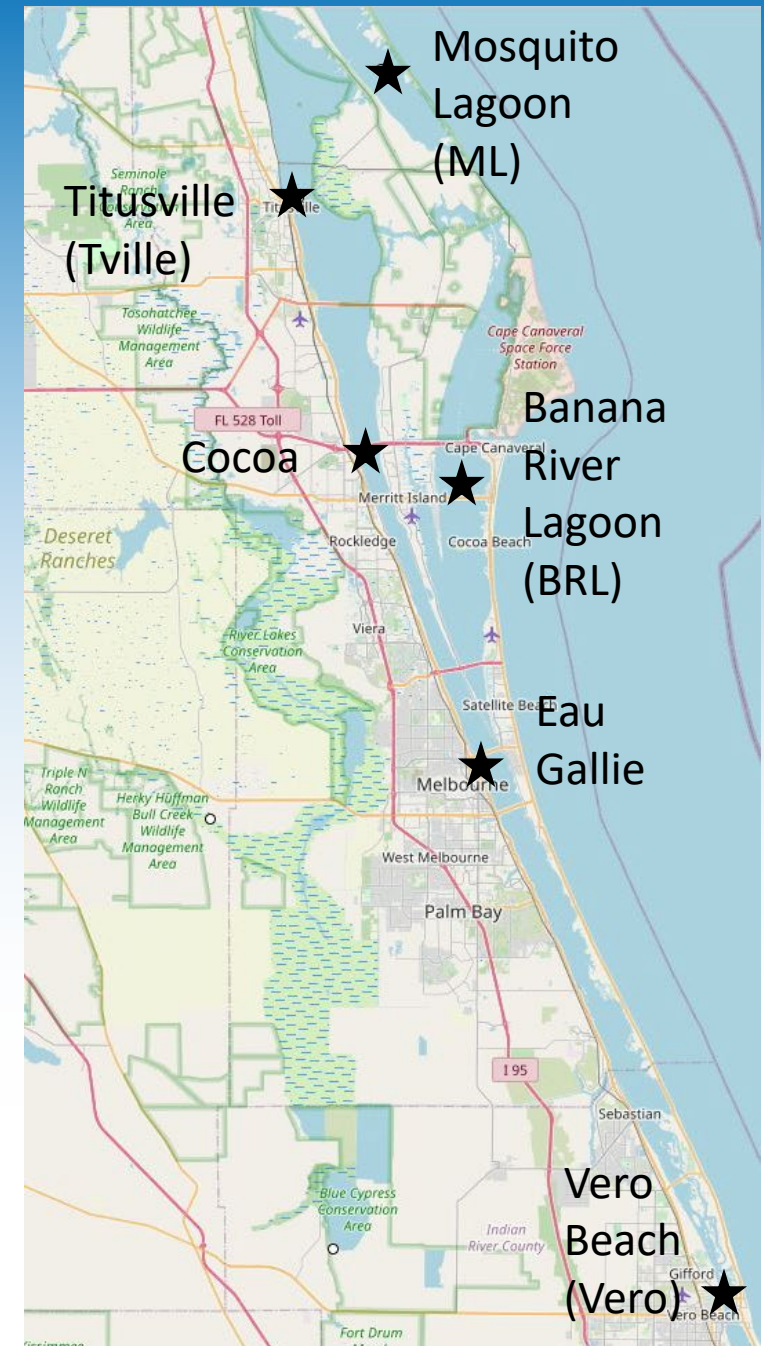


St. Johns River
Water Management District

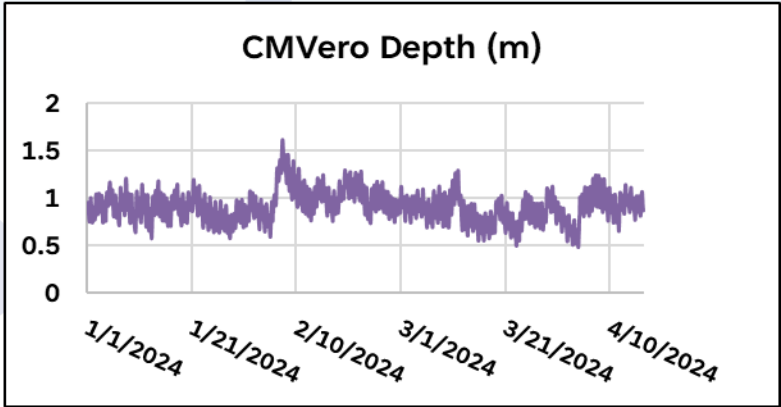
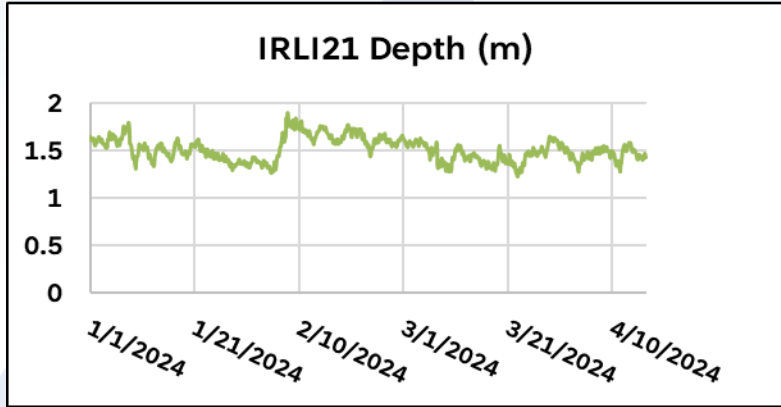
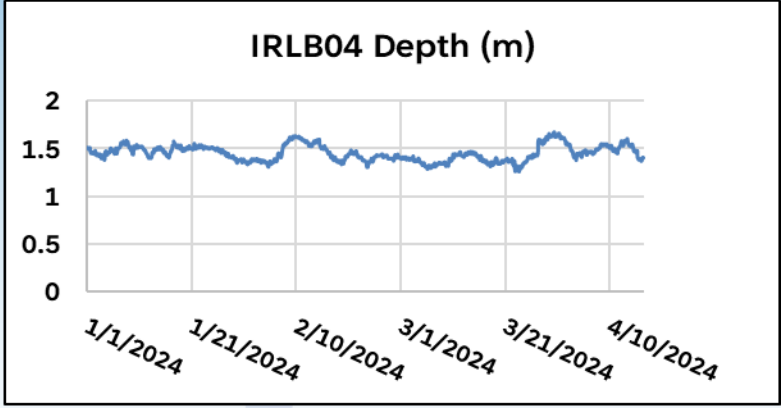
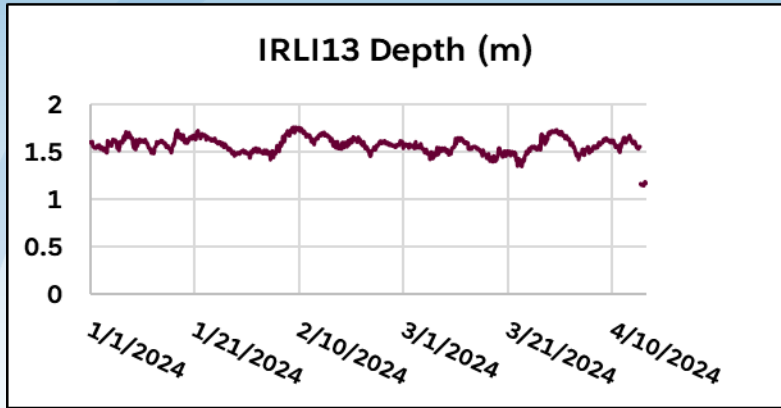
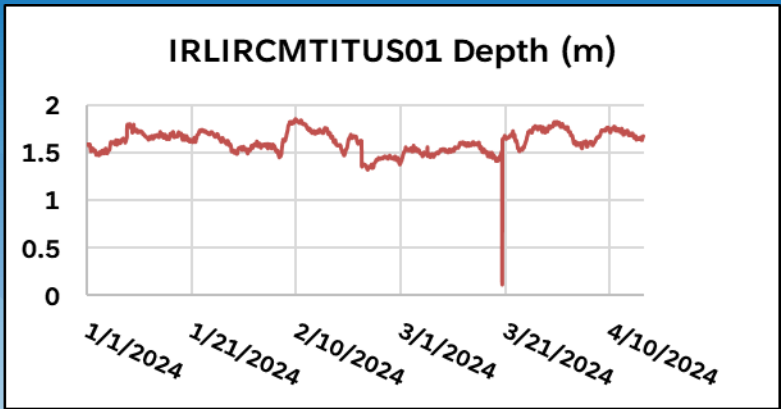
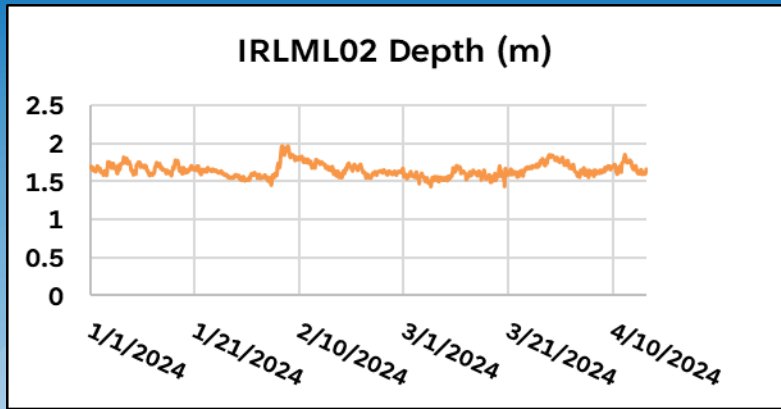
Continuous Monitoring

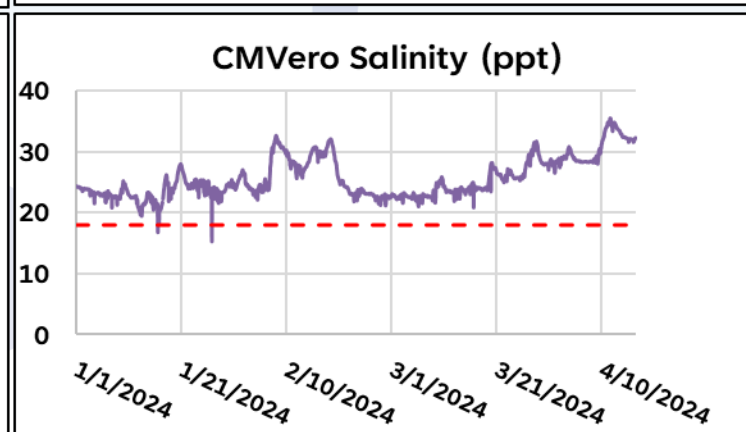
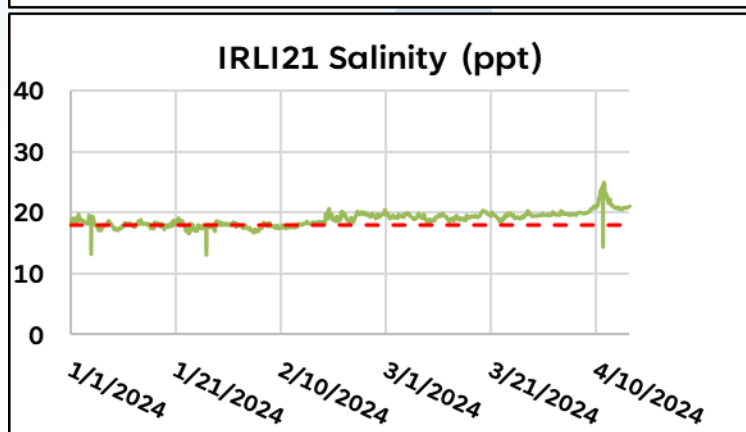
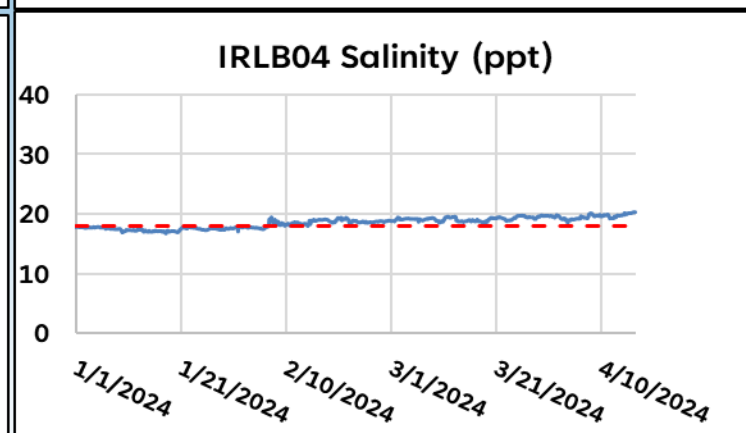
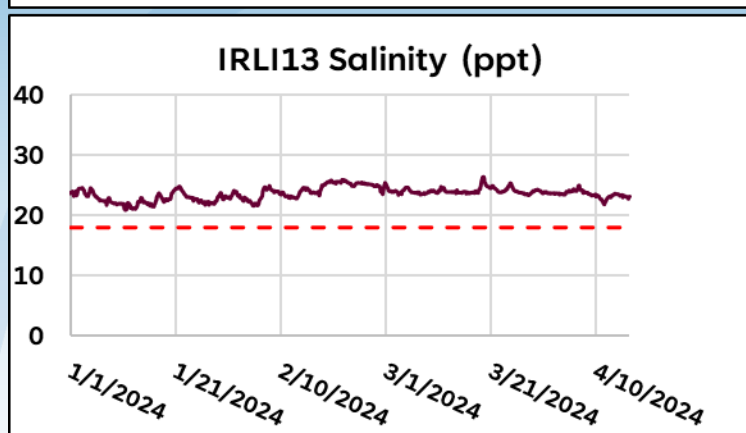
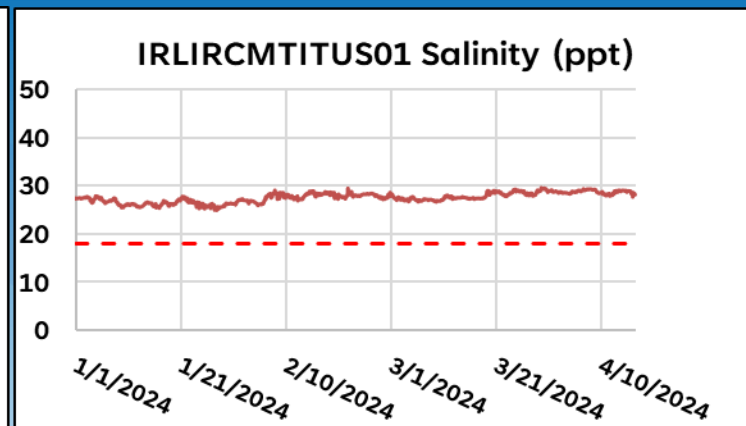
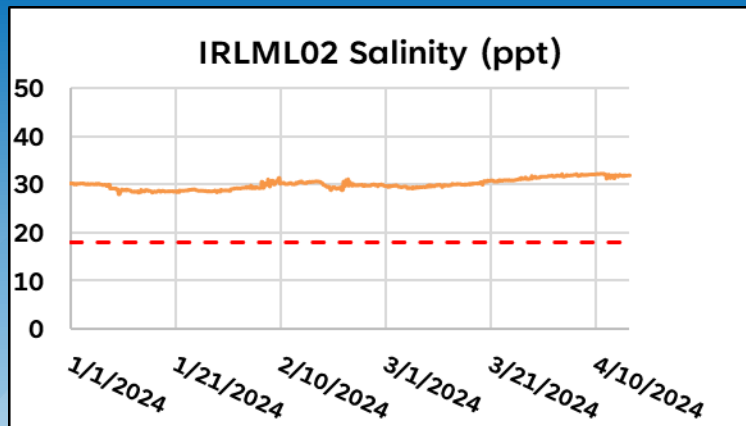


<https://secure.sjrwmd.com/aqportal>



St. Johns River
Water Management District



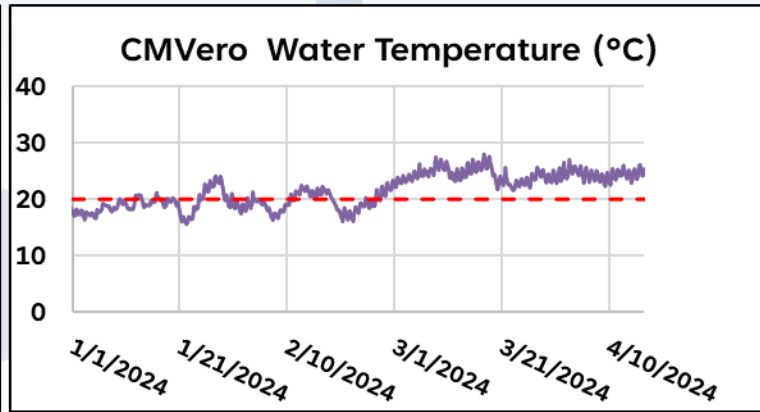
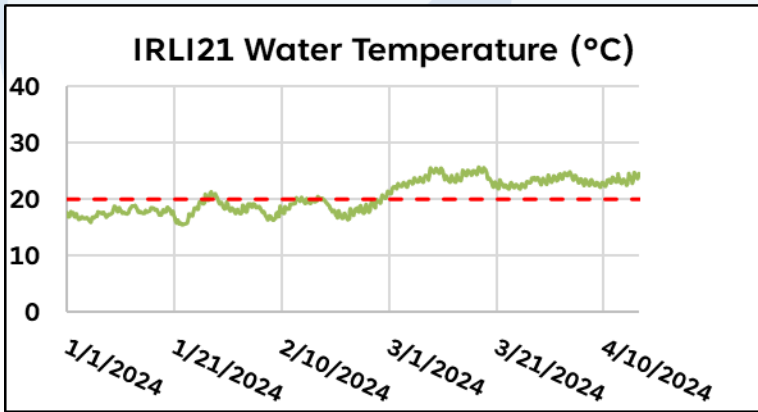
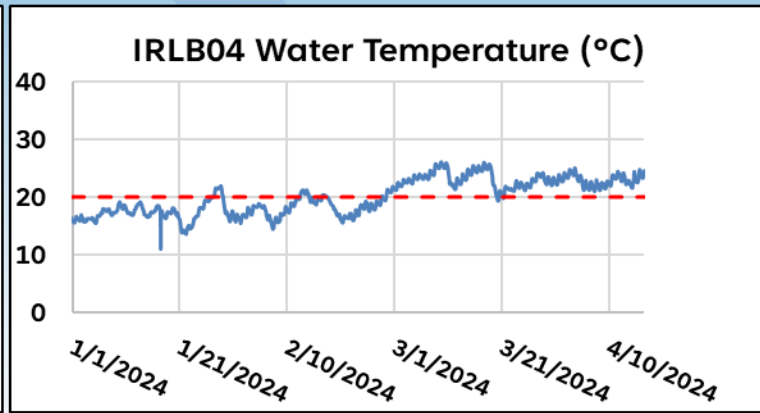
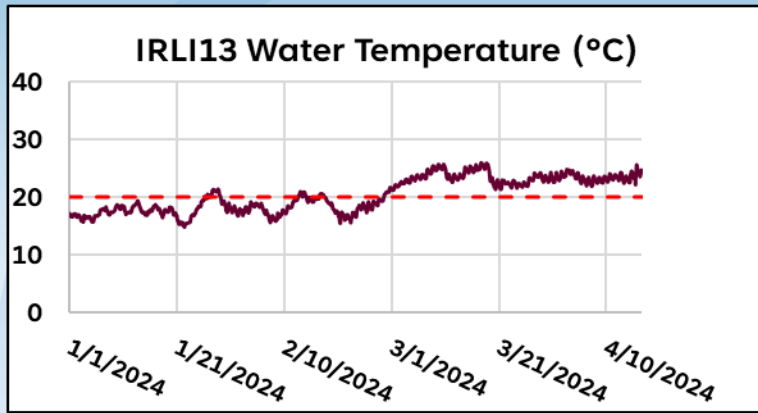
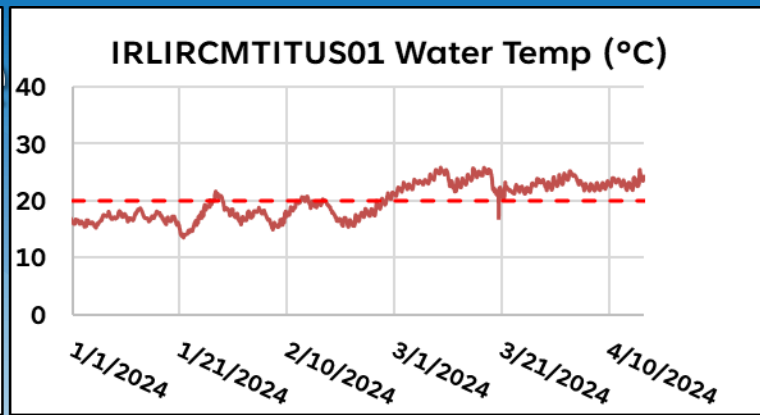
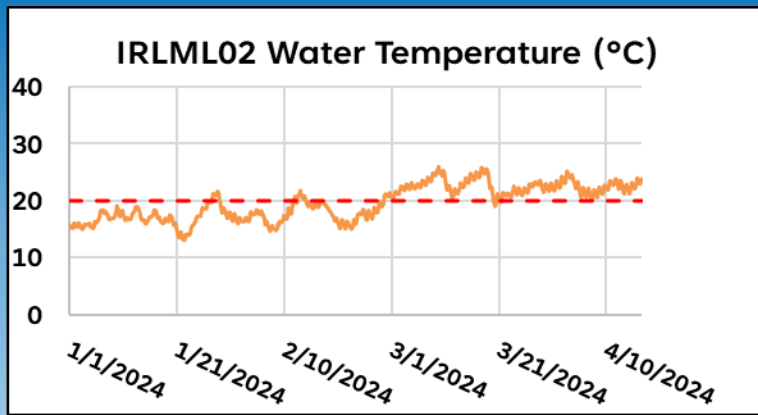


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stress
< 18

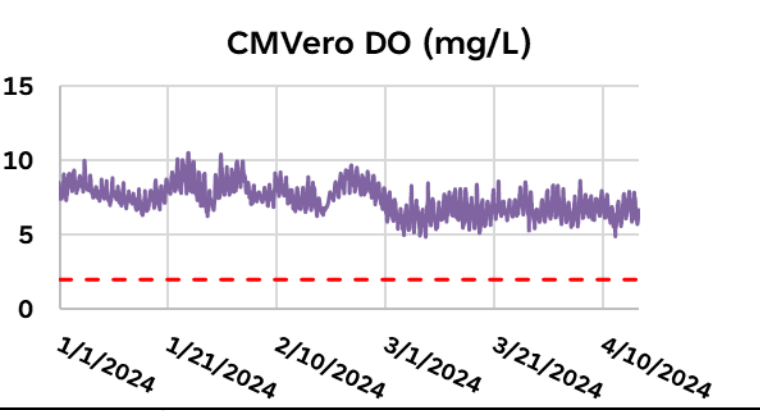
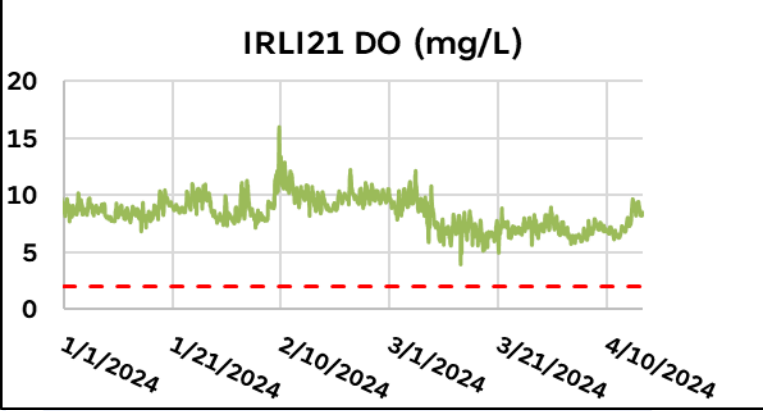
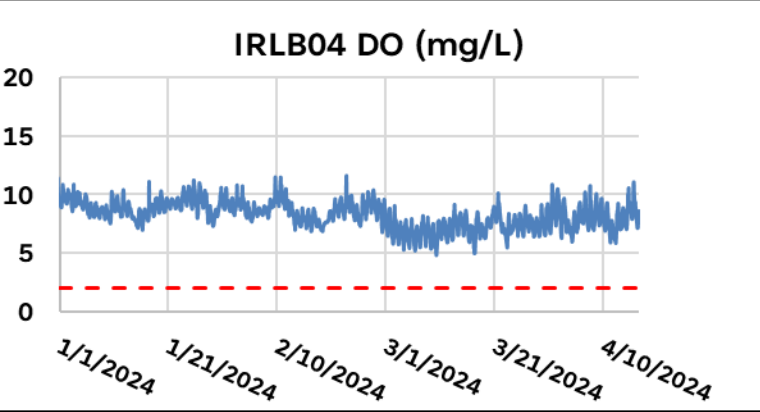
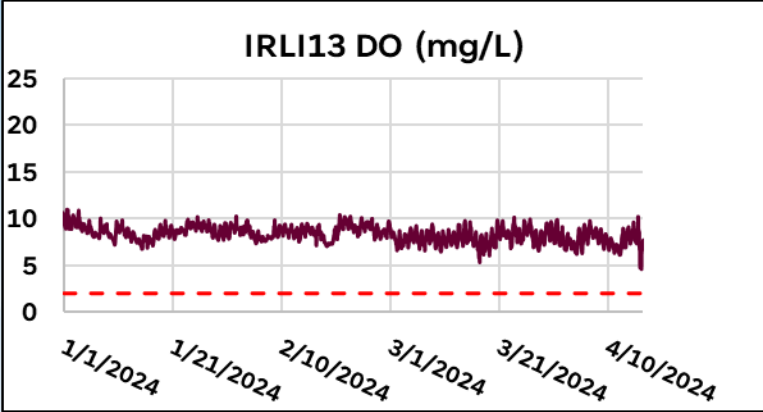
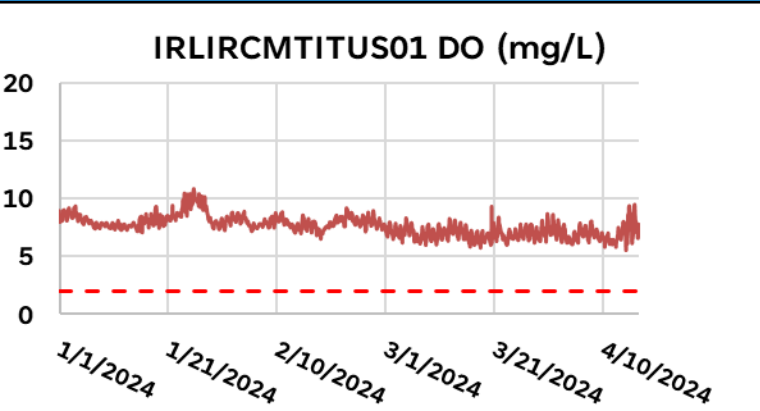
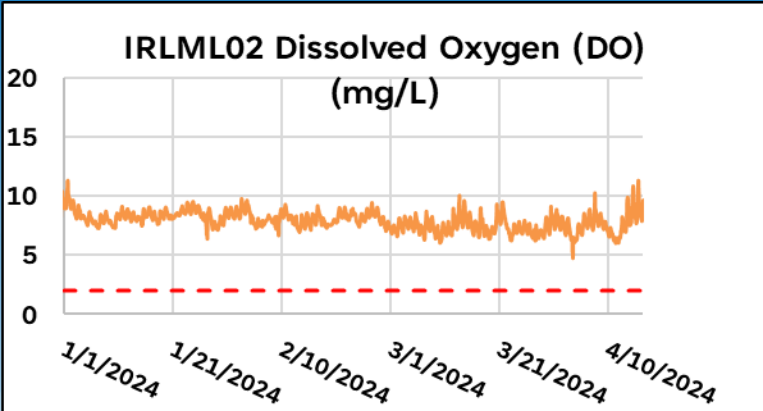


St. Johns River
Water Management District



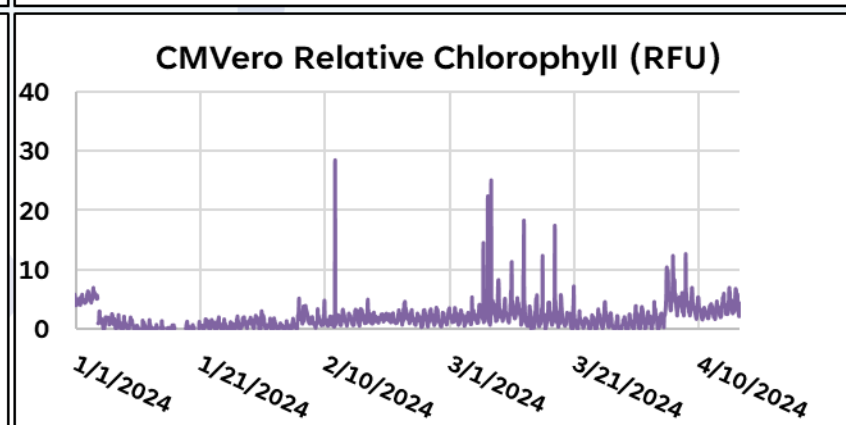
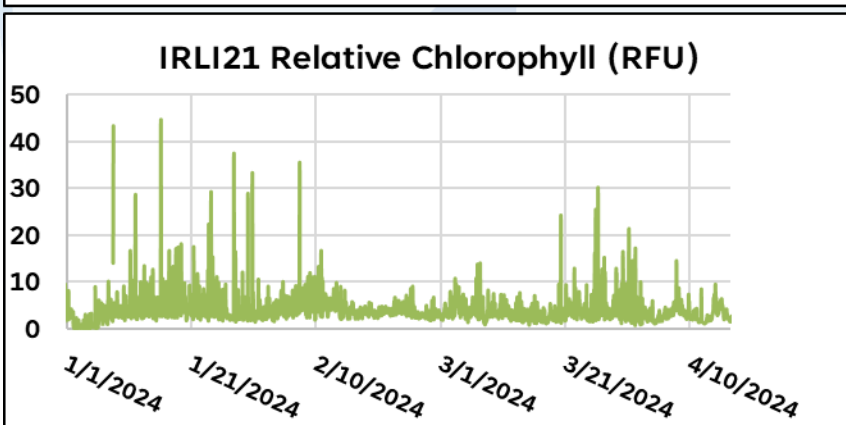
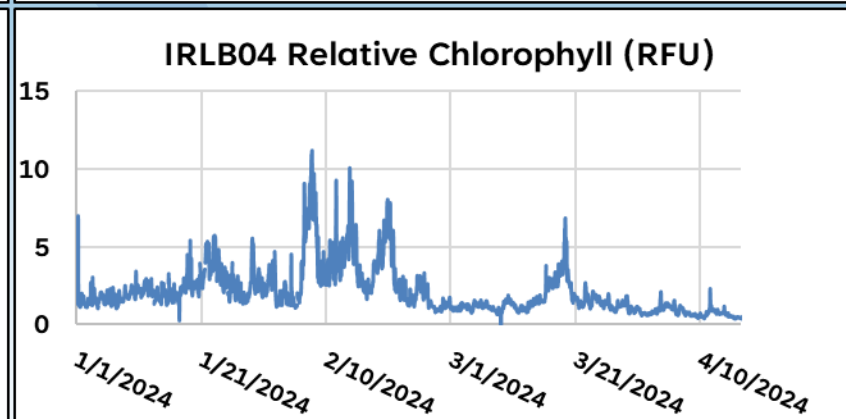
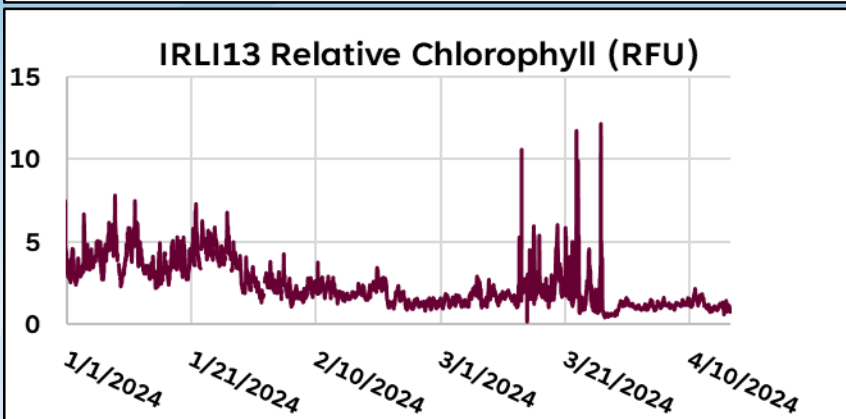
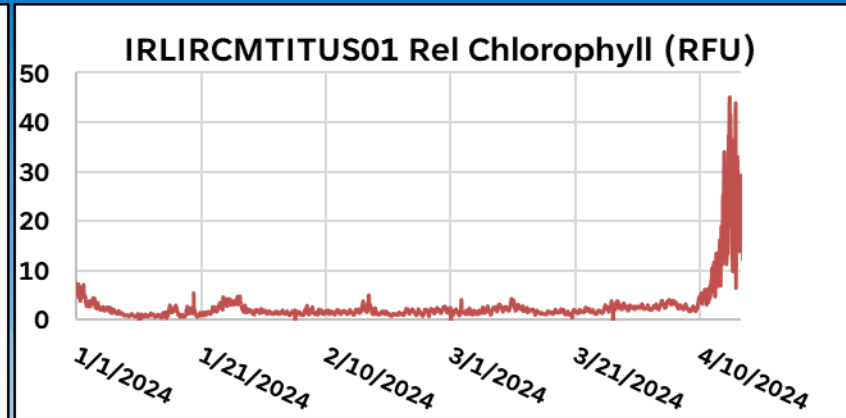
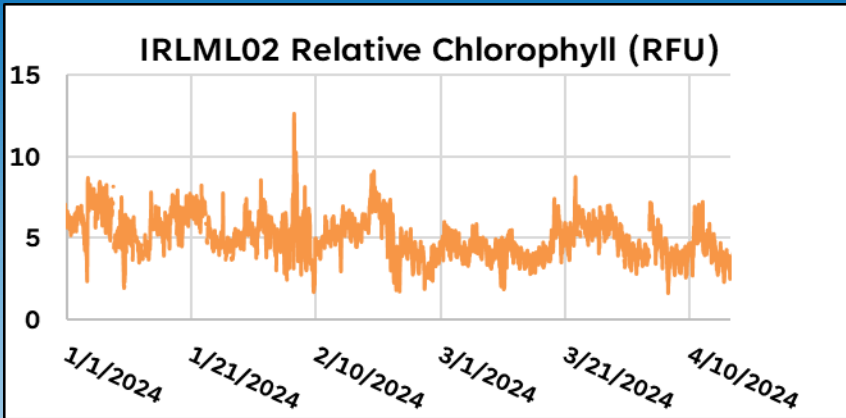
Halodule wrightii
seagrass
stress
< 20°C

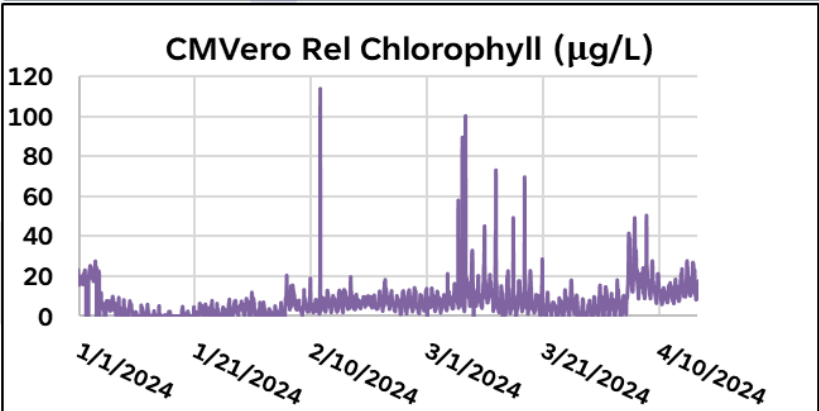
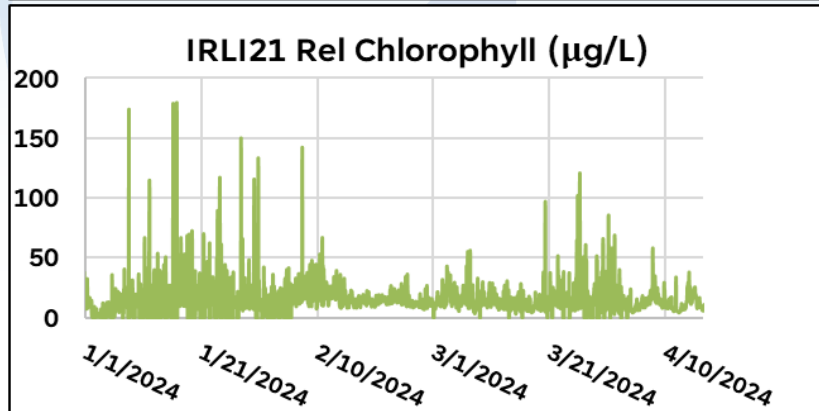
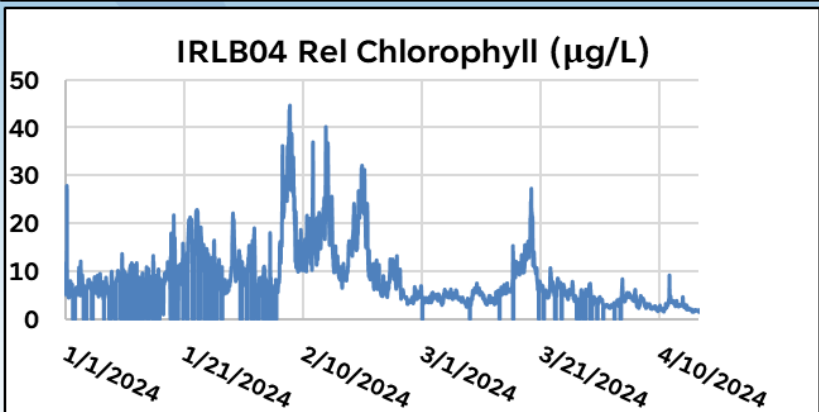
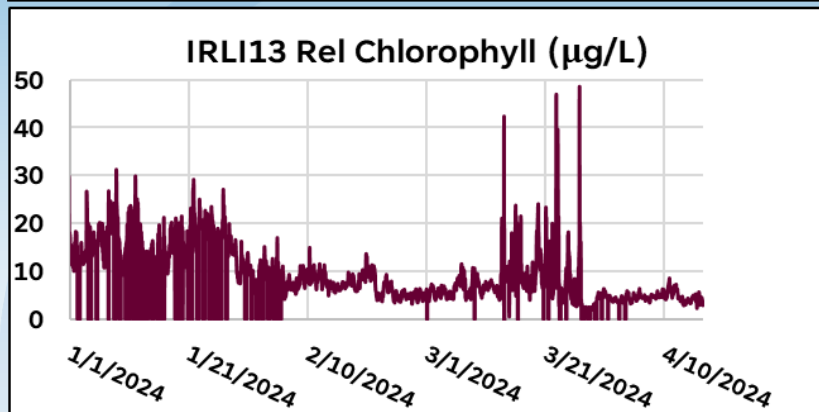
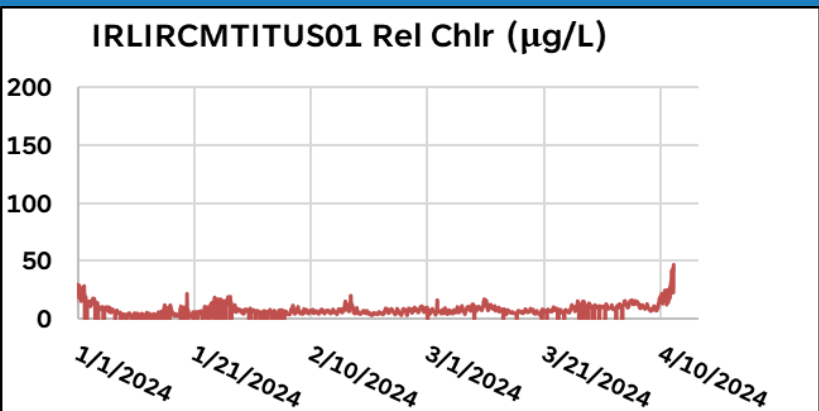
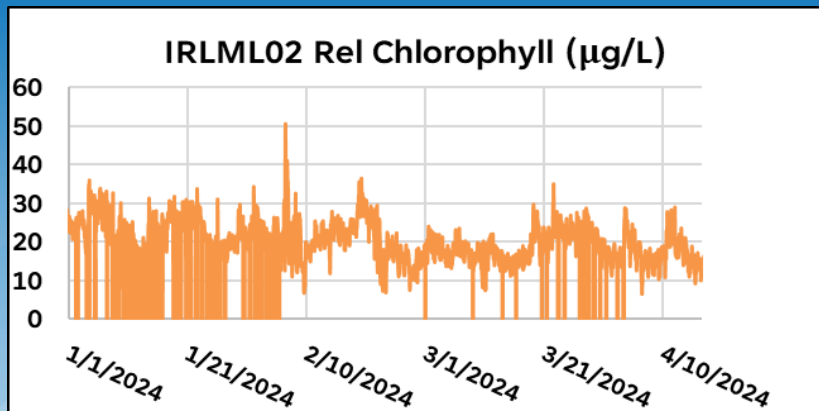


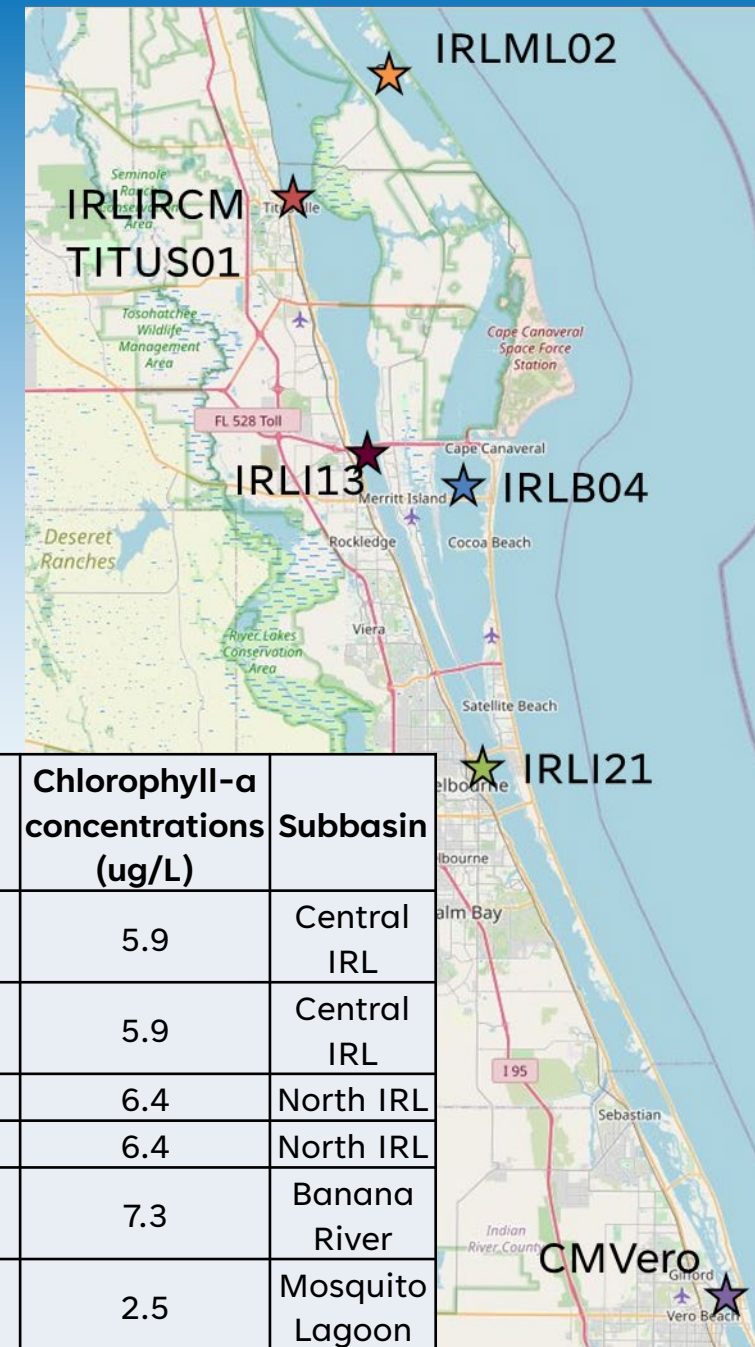
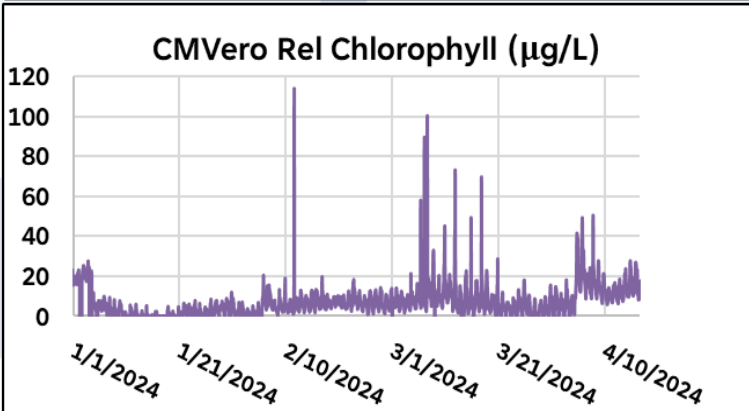
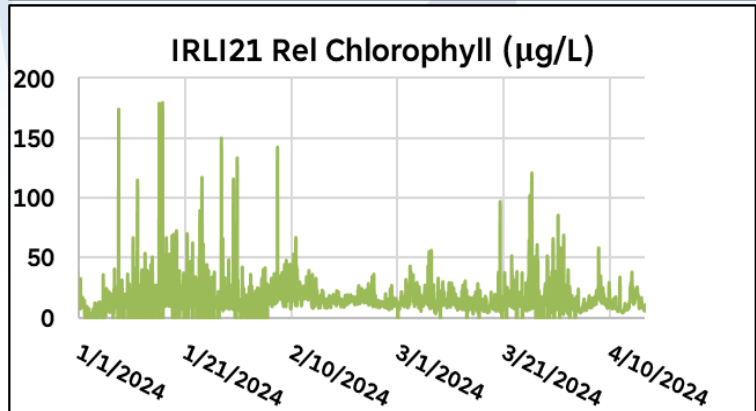
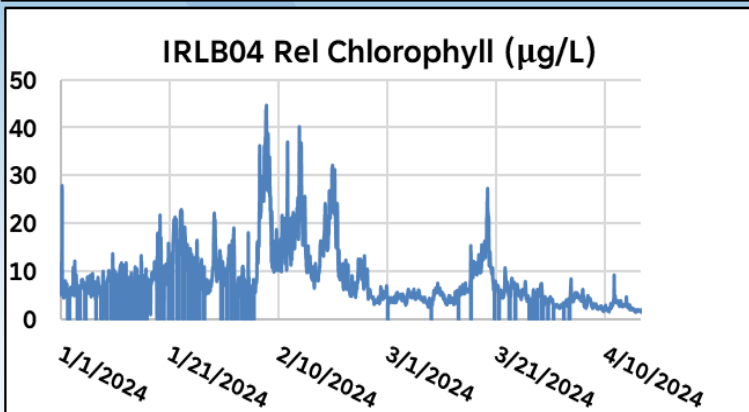
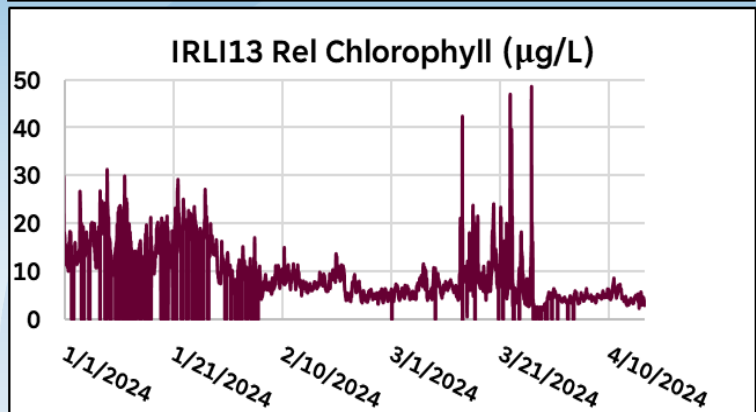
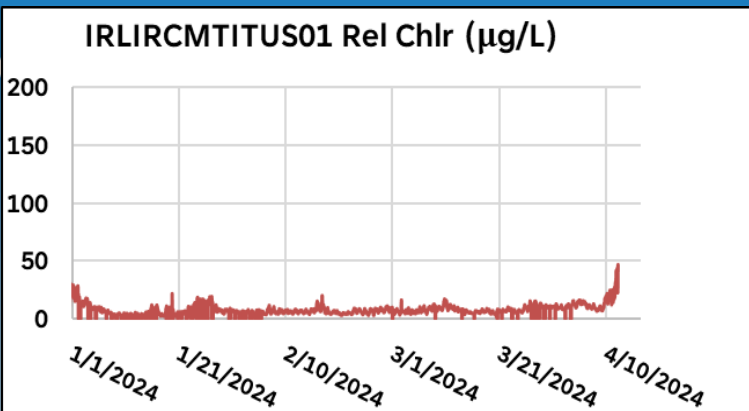
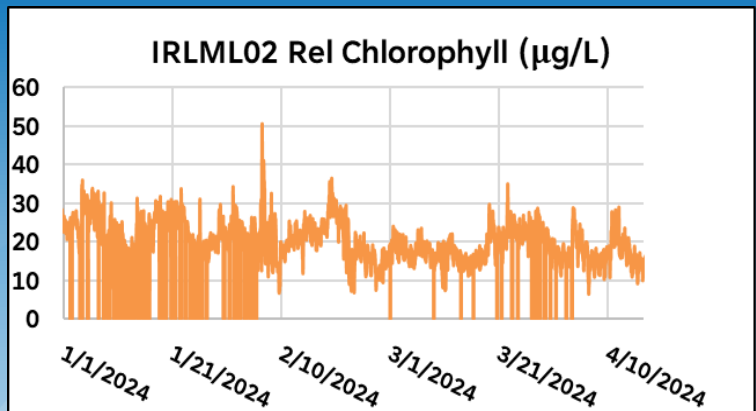


Hypoxia stress < 2 mg/L









Station	Chlorophyll-a concentrations (ug/L)	Subbasin
Vero	5.9	Central IRL
Melbourne	5.9	Central IRL
Cocoa	6.4	North IRL
Titusville	6.4	North IRL
Banana	7.3	Banana River
Mosquito (South)	2.5	Mosquito Lagoon



To view stations, select an area of interest below:

Major Basin

ADVANCED SELECTION

Date Range:

From:

To:

Station Status:

☐ Active

☐ Inactive

Station Category:

☐ Groundwater

☐ Surfacewater

Parameter List:

☐ All Available Parameters

OR

Select (<10) Parameters Below:

☐ Water Temp

☐ pH-Field

☐ DO

☐ DO-Percent Oxygen Saturation

☐ Conductivity-Field

☐ Secchi

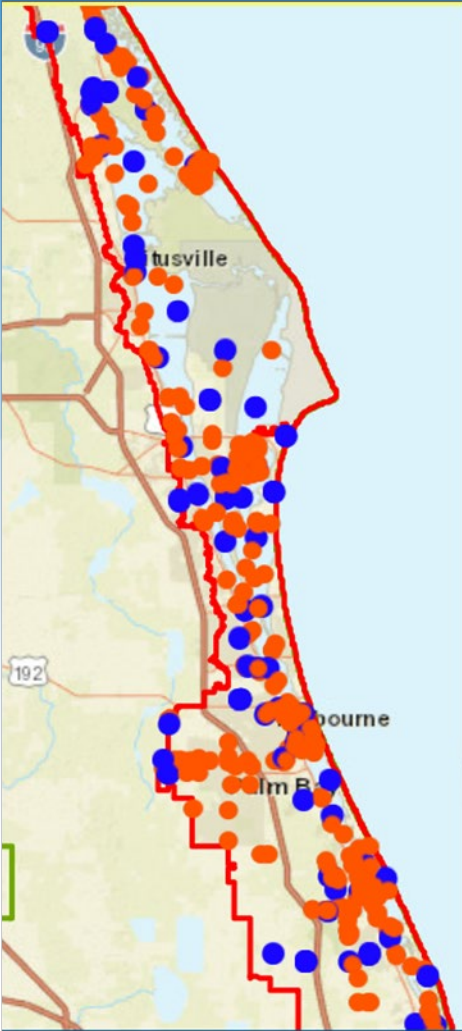
☐ Secchi-in.

☐ Depth of Collection-m

☐ Depth of Stream-m

☐ Air Temp

☐ Weather



Where are the other water quality data?

- Dataset from ~1980
- Special projects
- Ambient monitoring
- Many, many parameters
- Also submitted to the Florida Department of Environmental Protection and the US Geological Survey

<http://webapub.sjrwmd.com/agws10/edqt/>



To view stations, select an area of interest below:

Major Basin Indian River Lagoon DOWNLOAD ALL

BR1990

Lat/Long:-80.59, 28.41 Status:Active
Category:Groundwater Water Body:Well
Data available from 07/00/2008 to 11/04/2023

Data Parameters: select parameter and click DOWNLOAD DATA

- ☐ All Available Parameters
- ☐ Water Temp
- ☐ pH-Field
- ☐ DO
- ☐ DO-Percent Oxygen Saturation
- ☐ Conductivity-Field
- ☐ Depth of Collection-ft
- ☐ Measuring Point Elevation-ft

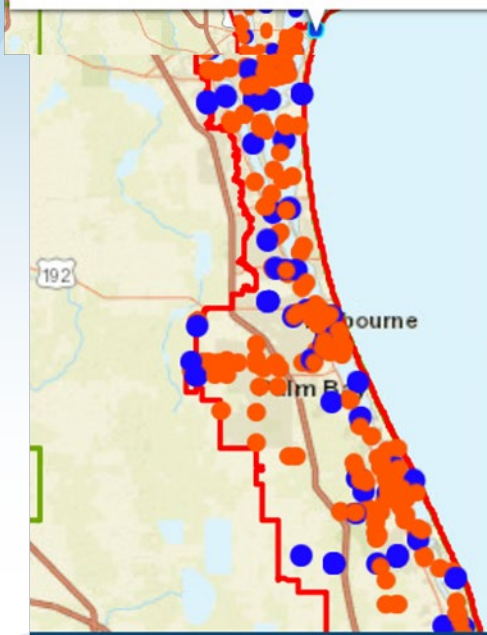
Parameter List:

☐ All Available Parameters

OR

Select (<10) Parameters Below:

- ☐ Water Temp
- ☐ pH-Field
- ☐ DO
- ☐ DO-Percent Oxygen Saturation
- ☐ Conductivity-Field
- ☐ Secchi
- ☐ Secchi-in.
- ☐ Depth of Collection-m
- ☐ Depth of Stream-m
- ☐ Air Temp
- ☐ Weather



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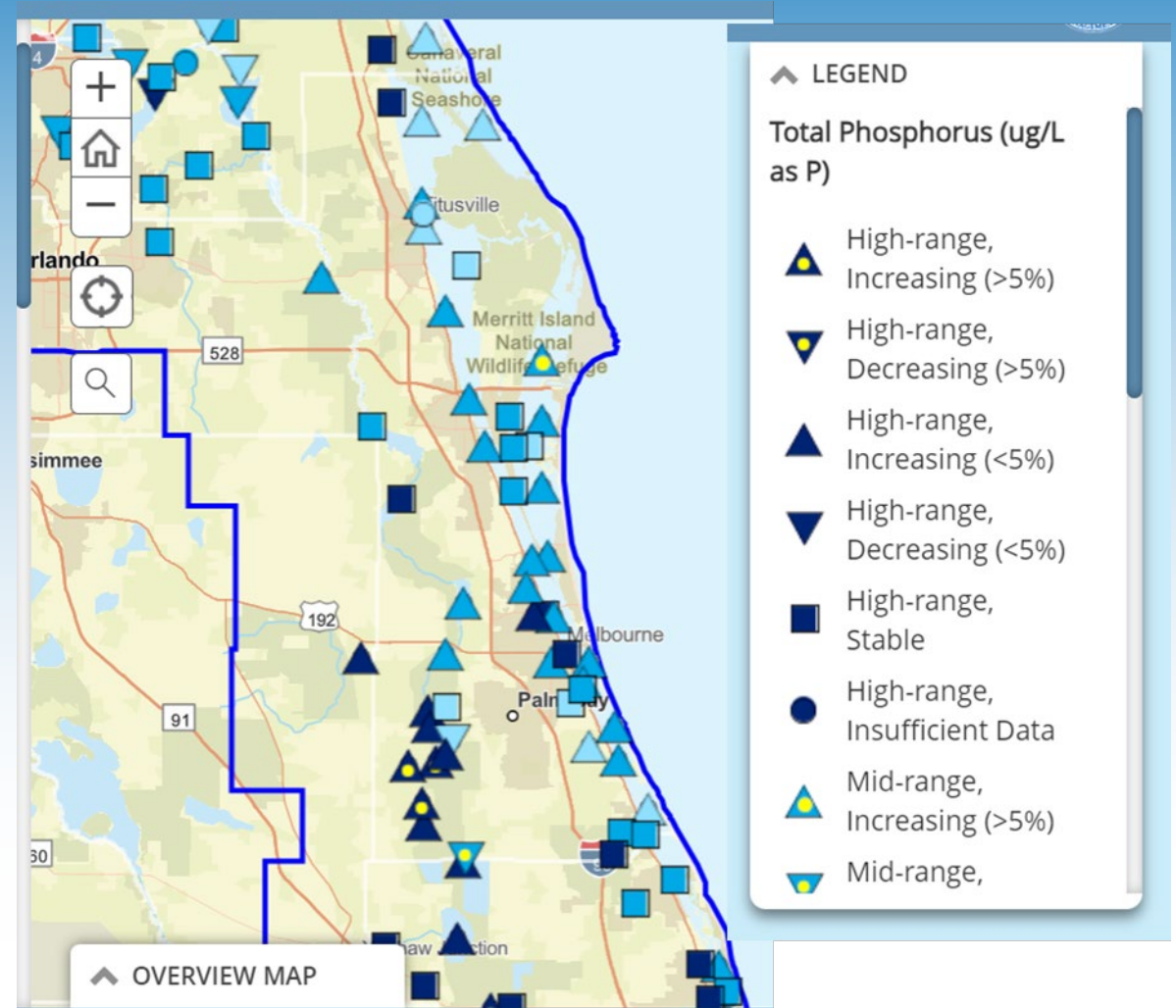
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<http://webapub.sjrwmd.com/agws10/edqt/>



Status and Trends Report

- General snapshot of water quality via interactive map application
- Trend based on 15 years of data
 - Non-parametric Mann-Kendall
 - Trend strength
- Status based on 5 years of data
 - Median of annual median values
- Looks at 14 parameters from nutrients to water temperature

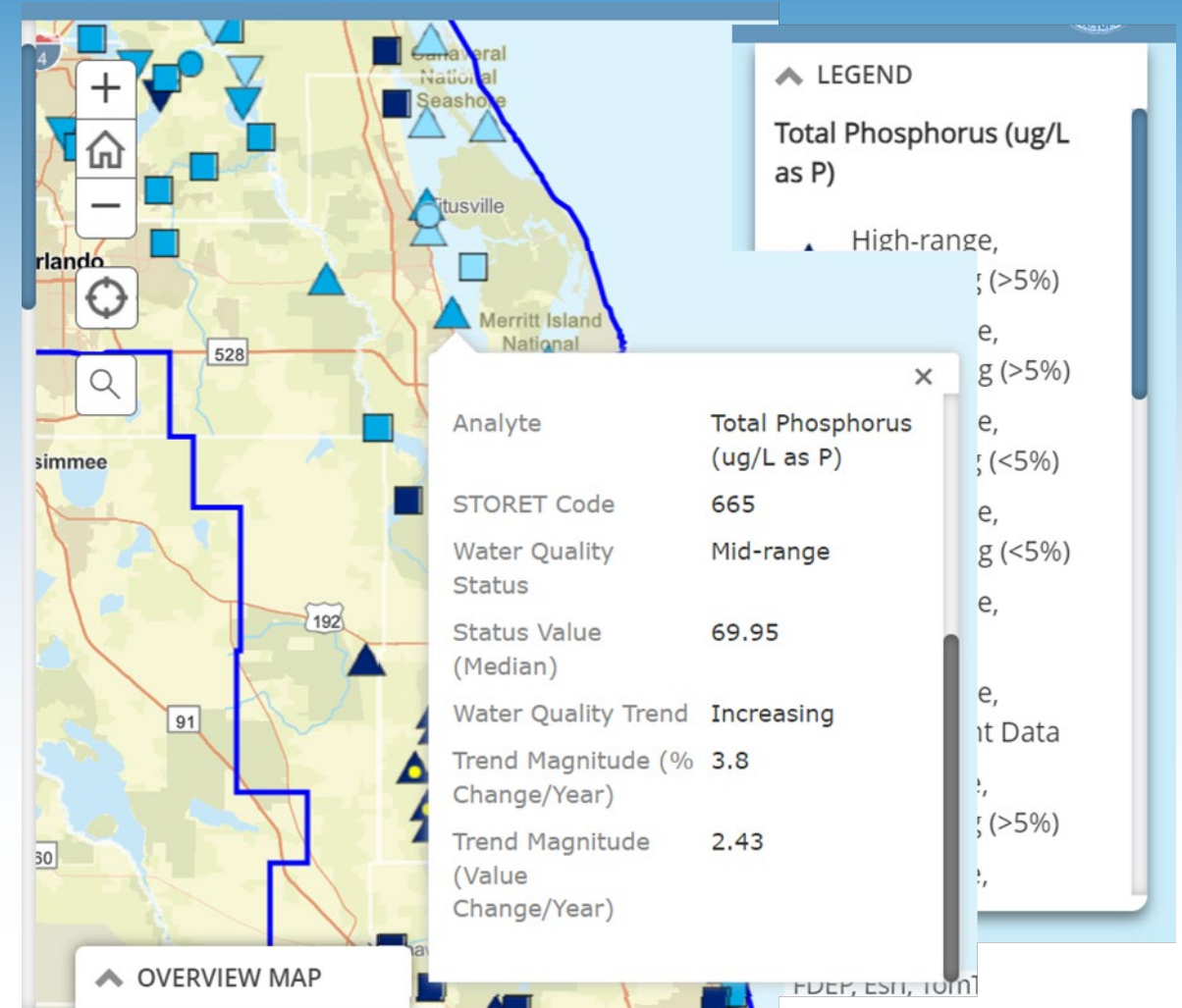


<https://floridaswater.maps.arcgis.com/apps/MapSeries/index.html?appid=b6fa8a5115bc4c0f871e1a43cc331f97>



Status and Trends Report

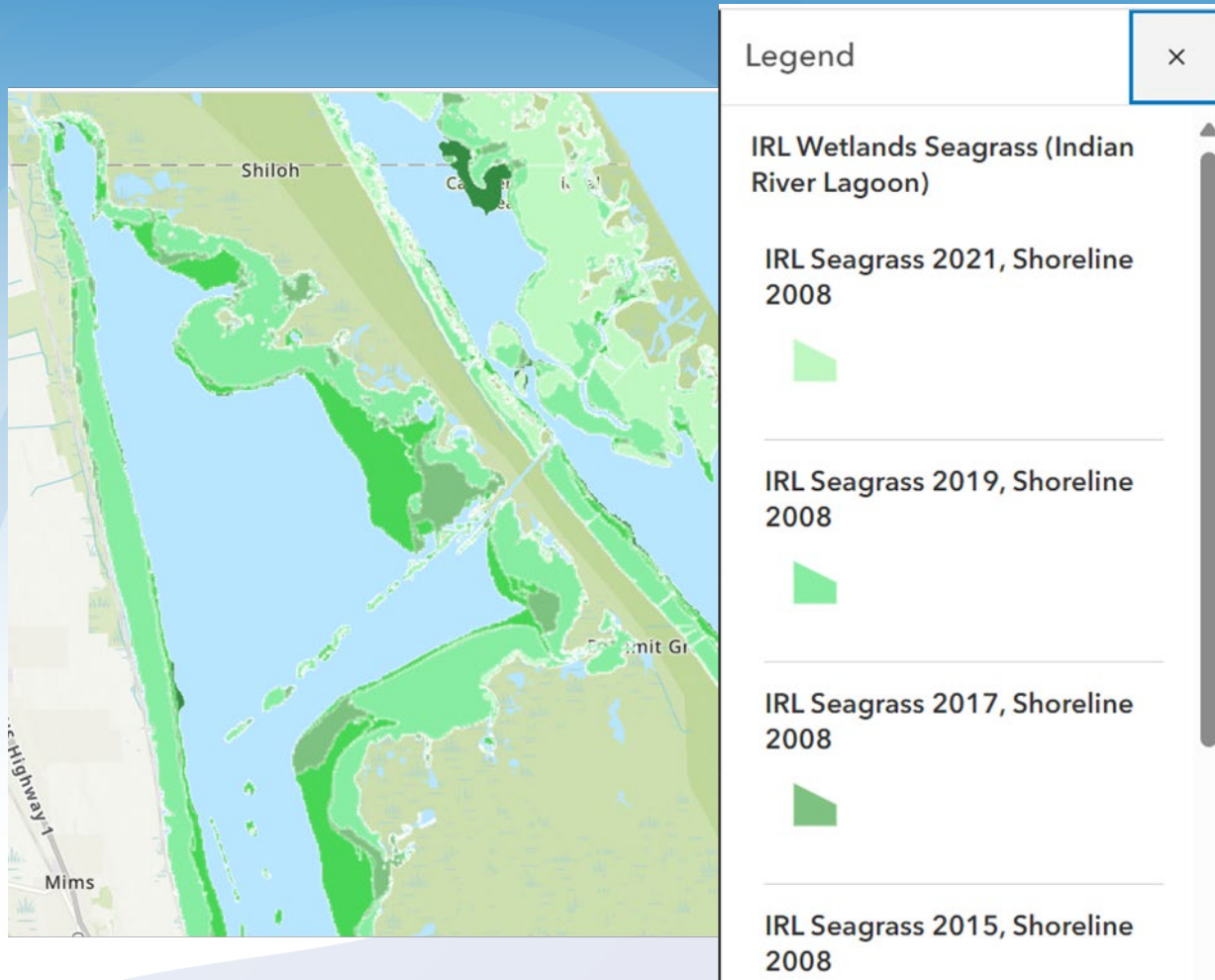
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<https://floridaswater.maps.arcgis.com/apps/MapSeries/index.html?appid=b6fa8a5115bc4c0f871e1a43cc331f97>

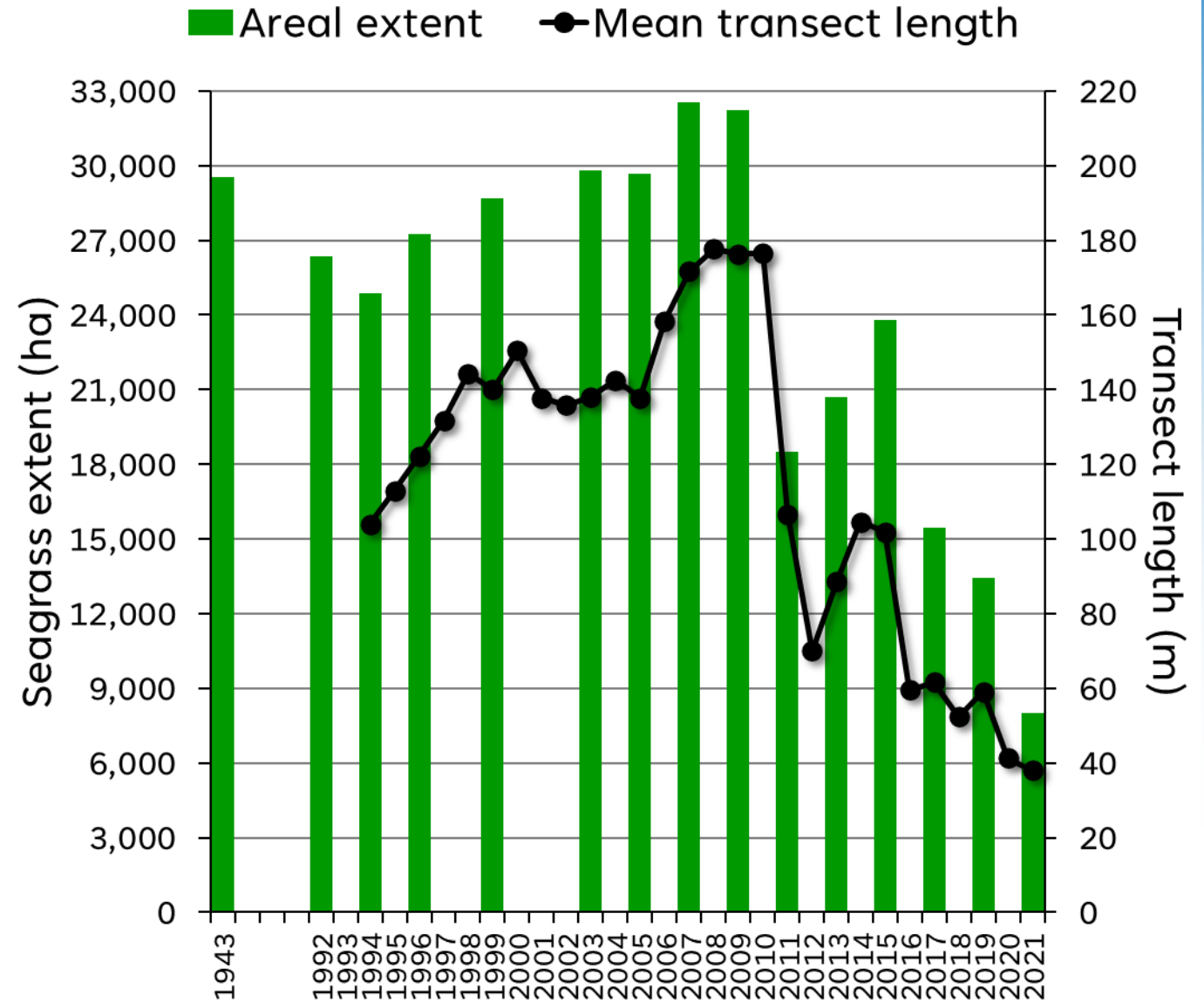
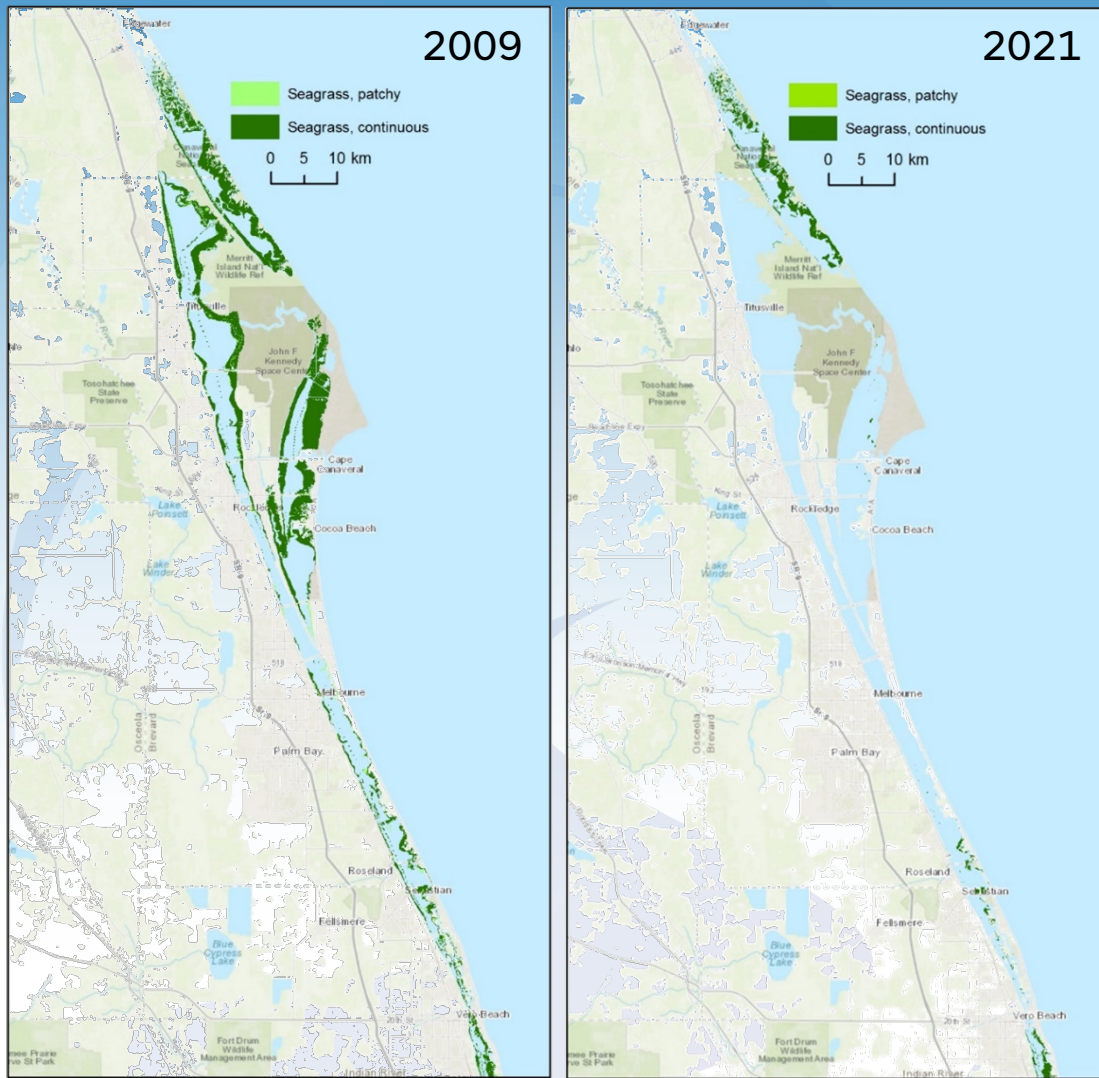


Seagrass Data

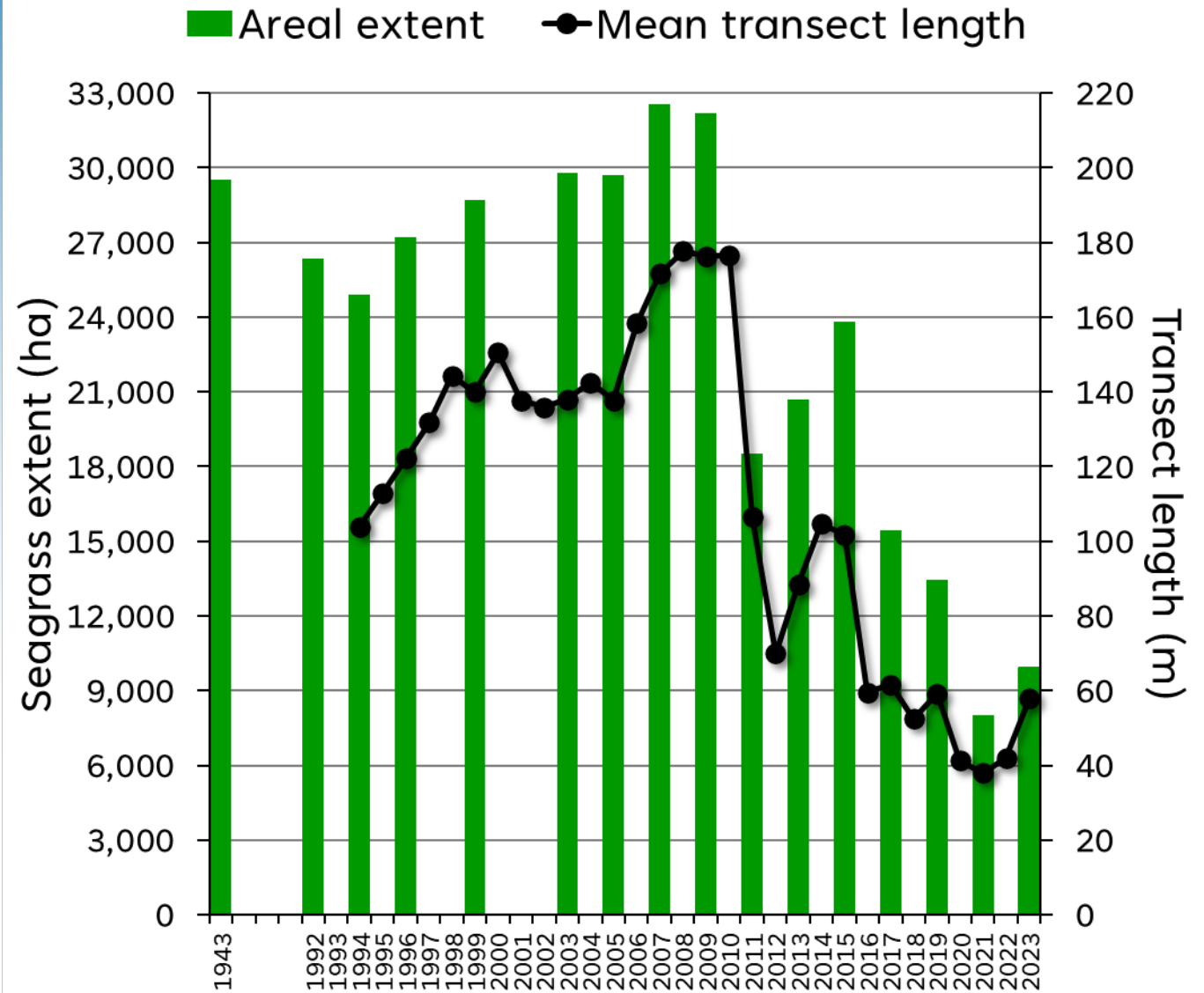
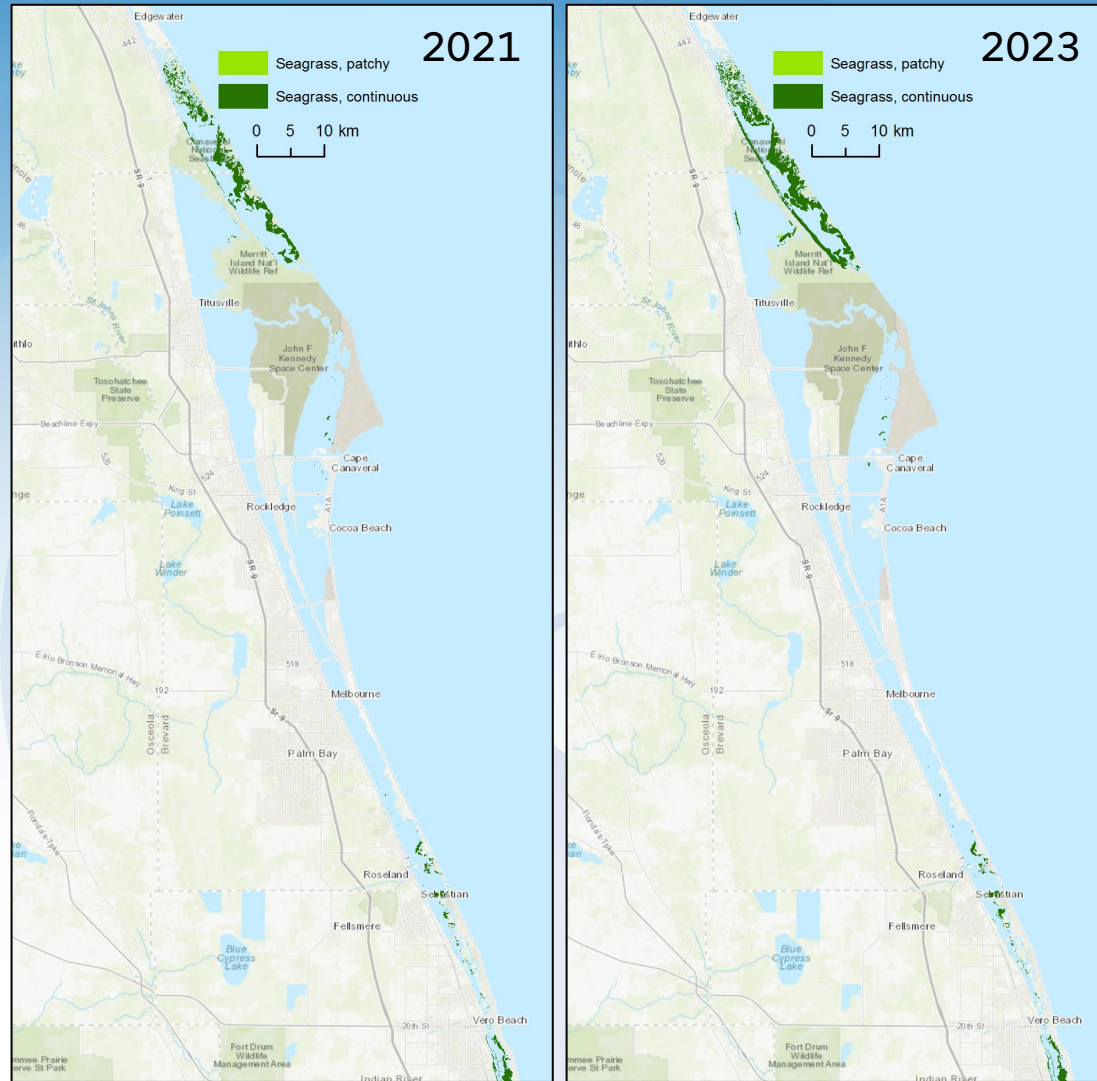


- 1943 and 1986–2021
 - 2023 is in prep
 - [IRL Wetlands Seagrass \(Indian River Lagoon\) | St. Johns River Water Management District \(SJRWMD\) Geospatial Open Data \(arcgis.com\)](https://arcgis.com)
- Many other GIS layers
 - [St. Johns River Water Management District \(SJRWMD\) Geospatial Open Data \(arcgis.com\)](https://arcgis.com)

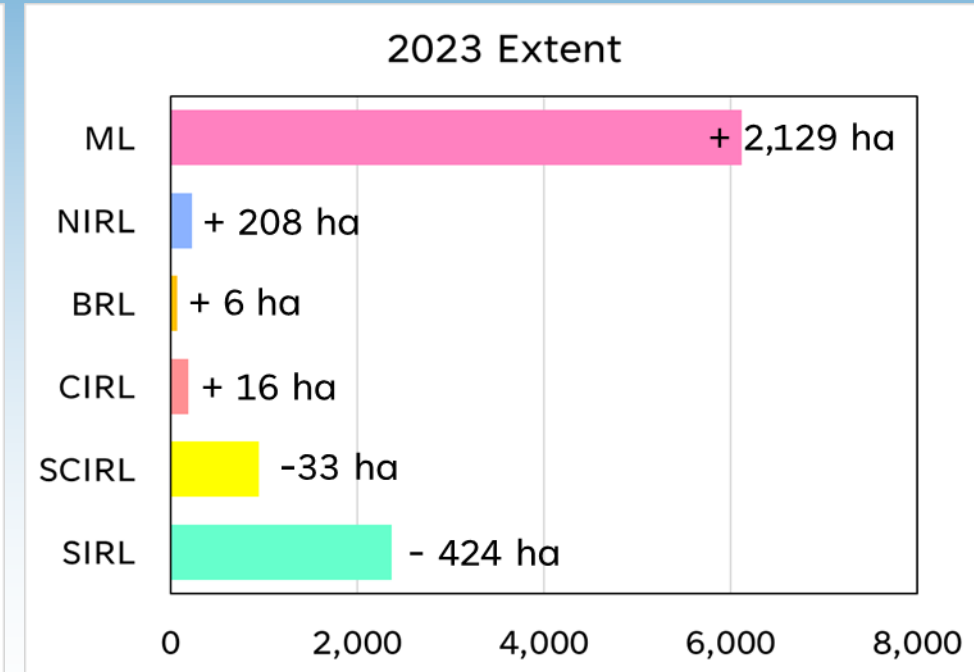
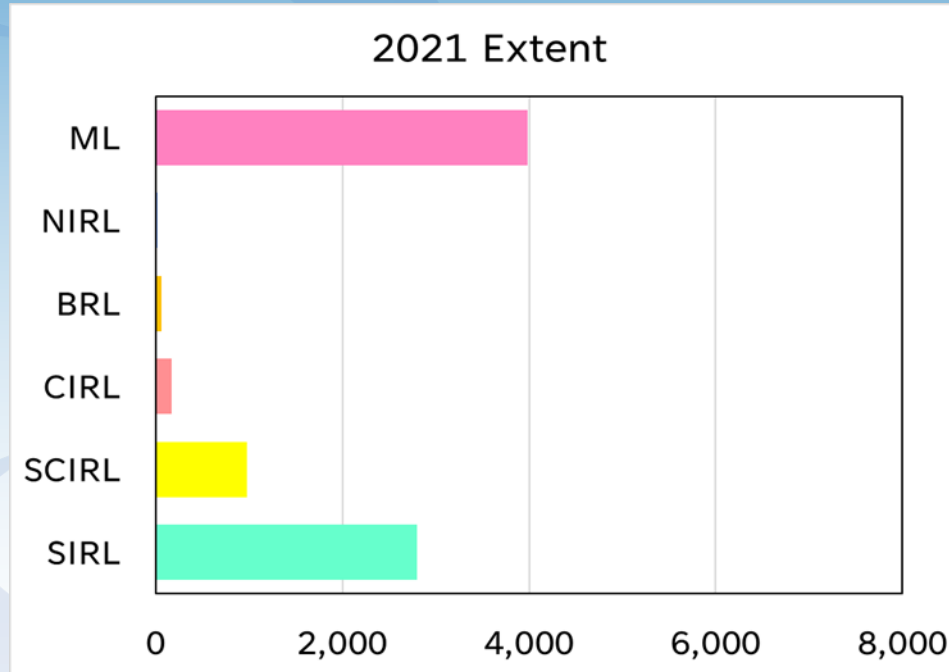
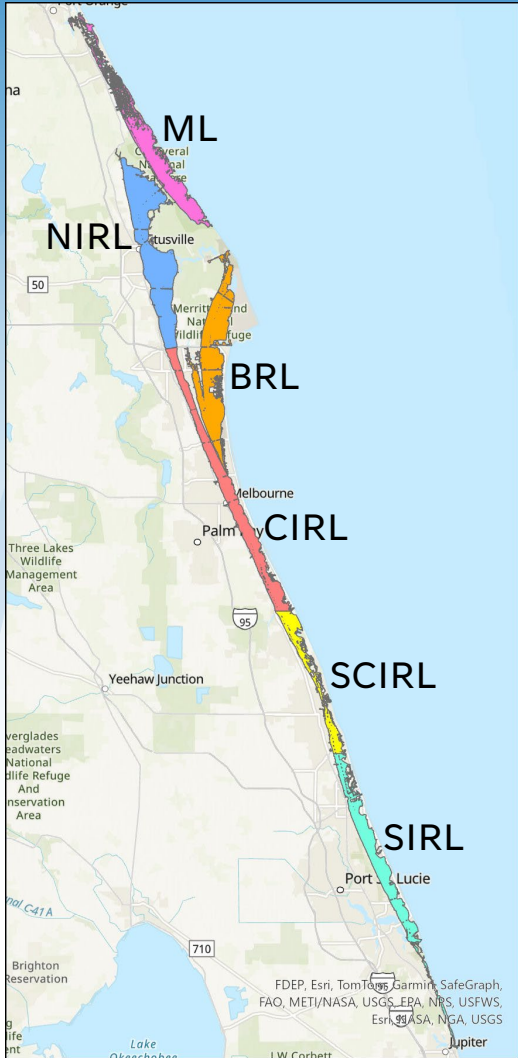
Seagrass Extent



Seagrass Extent

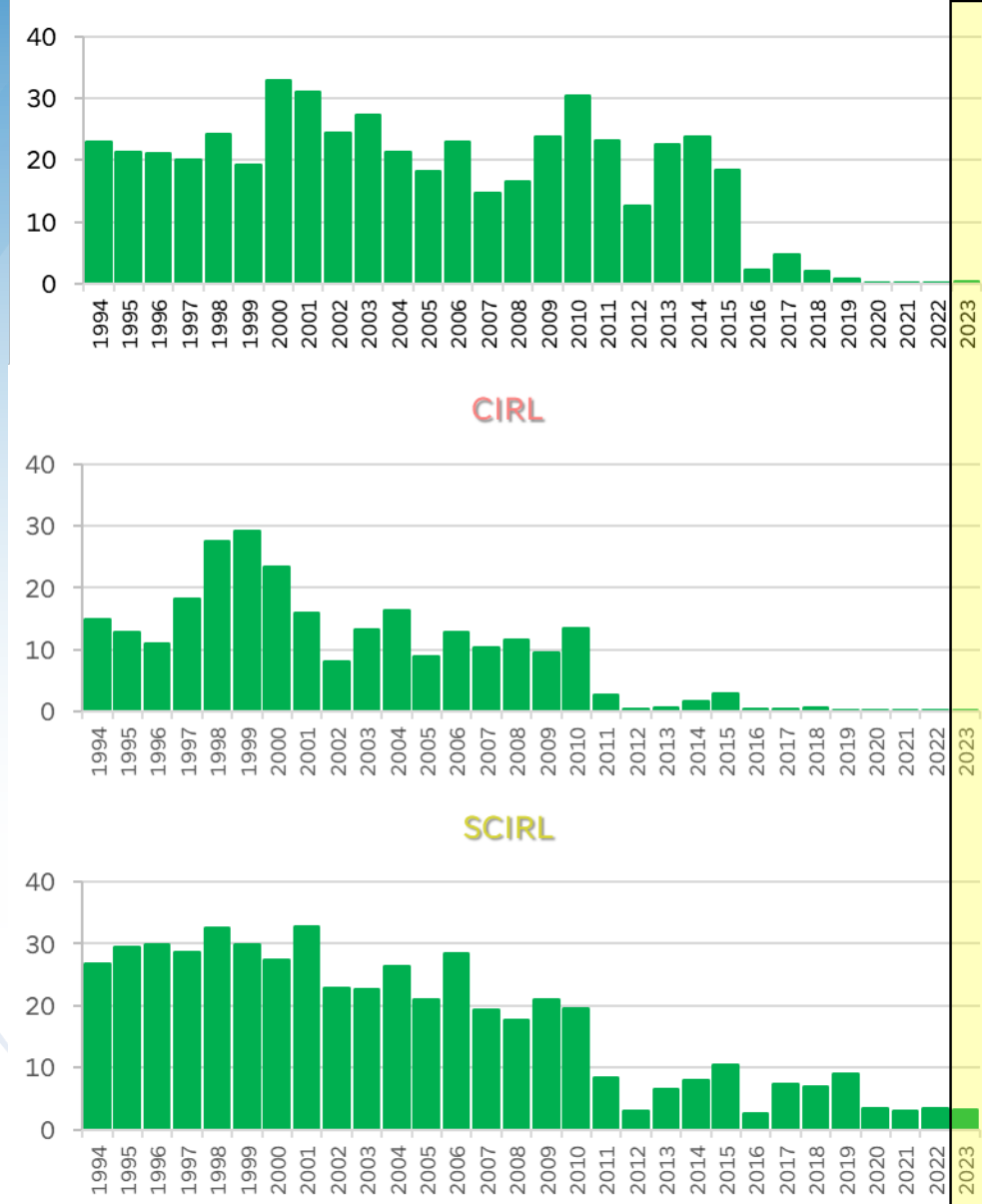


Seagrass Extent by Sublagoon

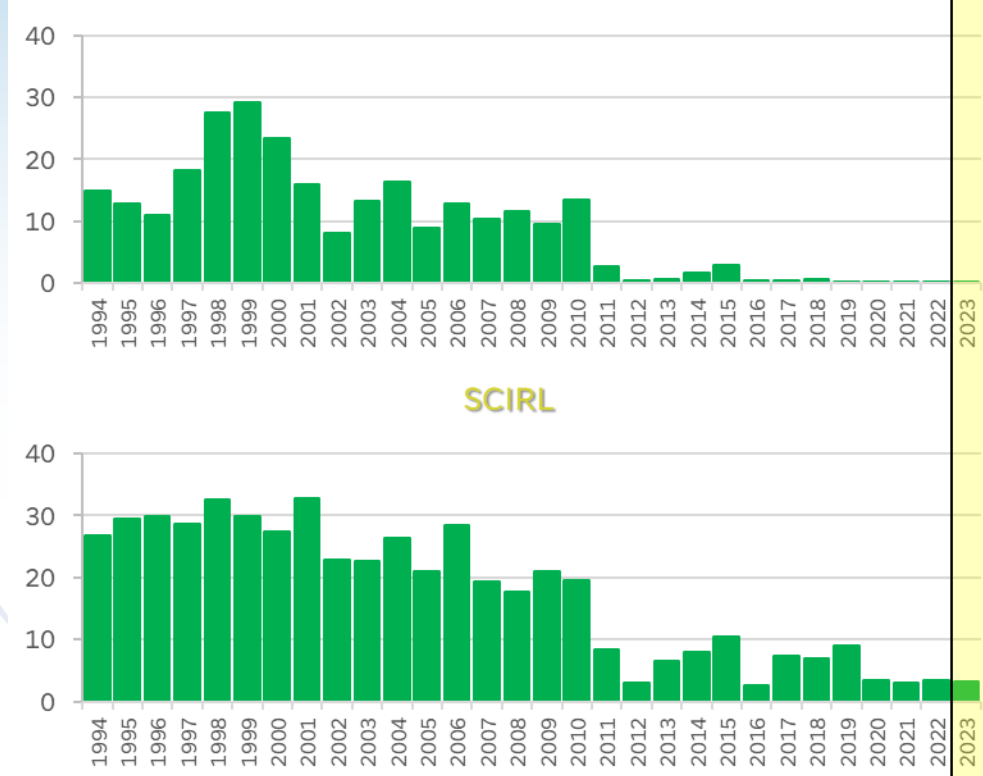


Mean Seagrass Cover by Sublagoon

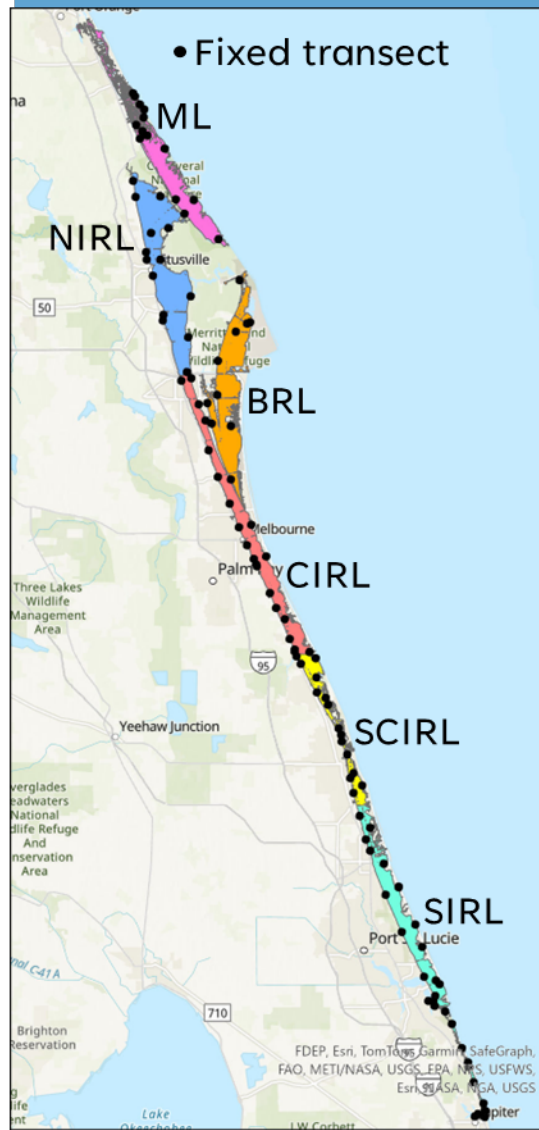
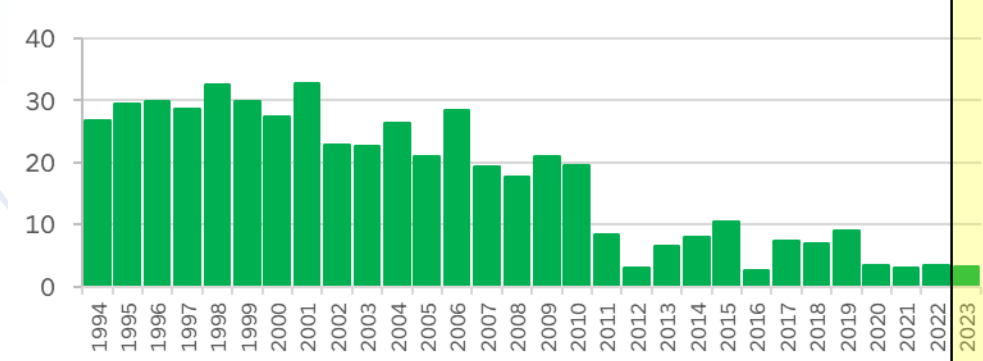
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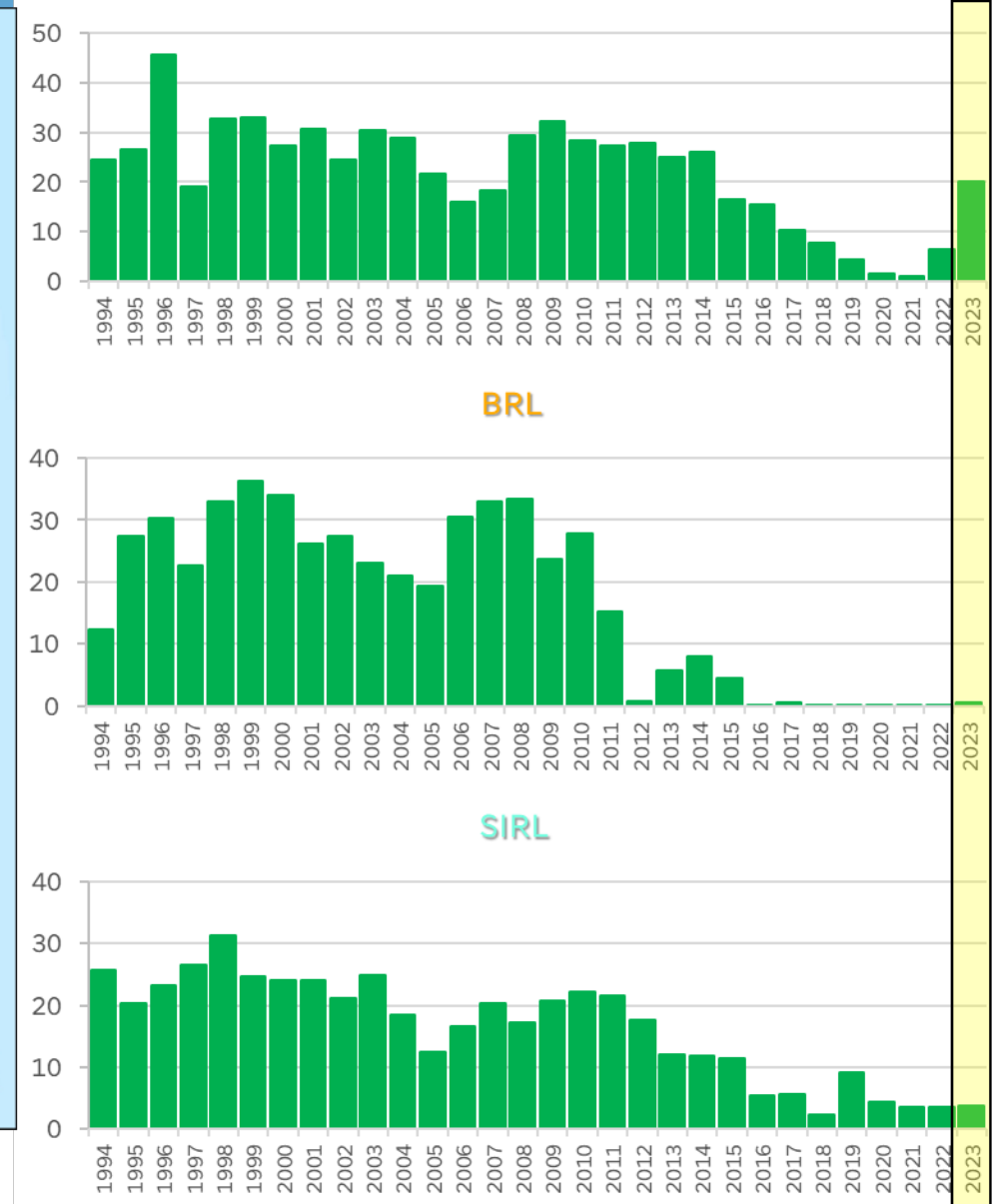
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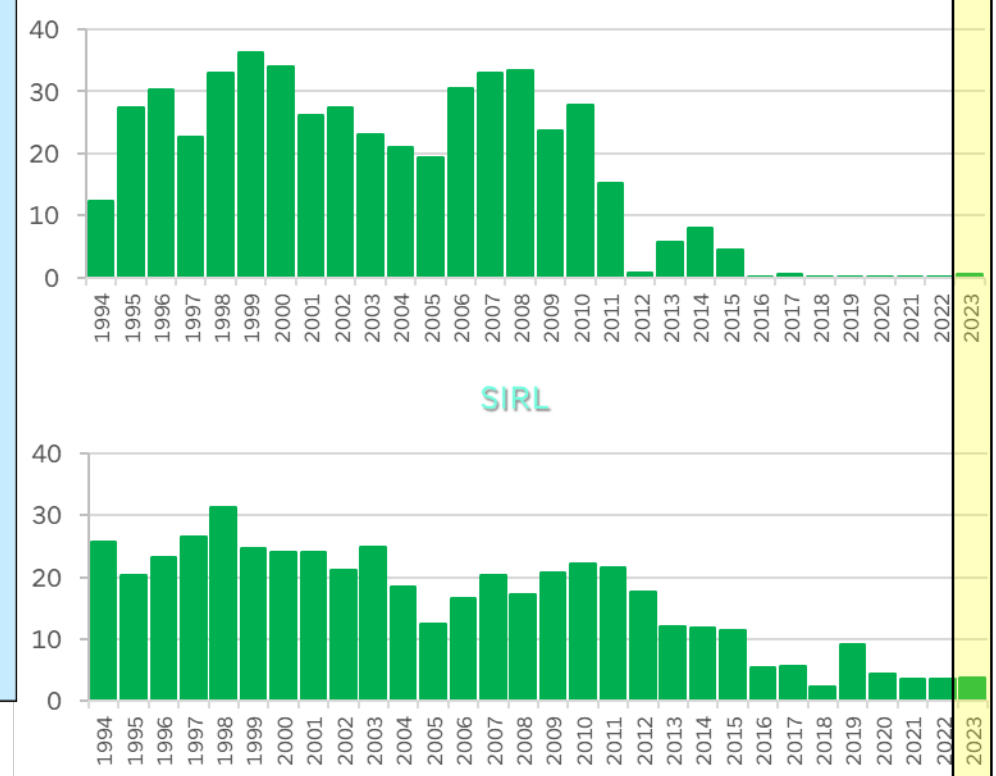
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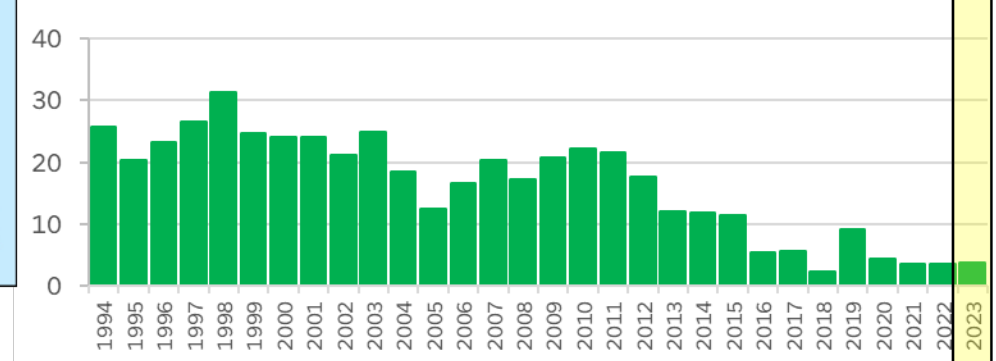
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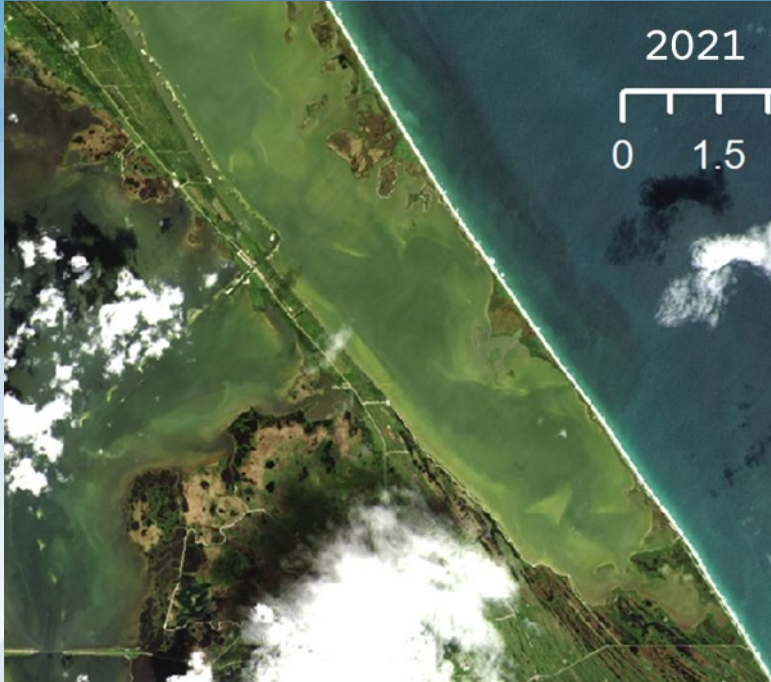
BRL



SIRL

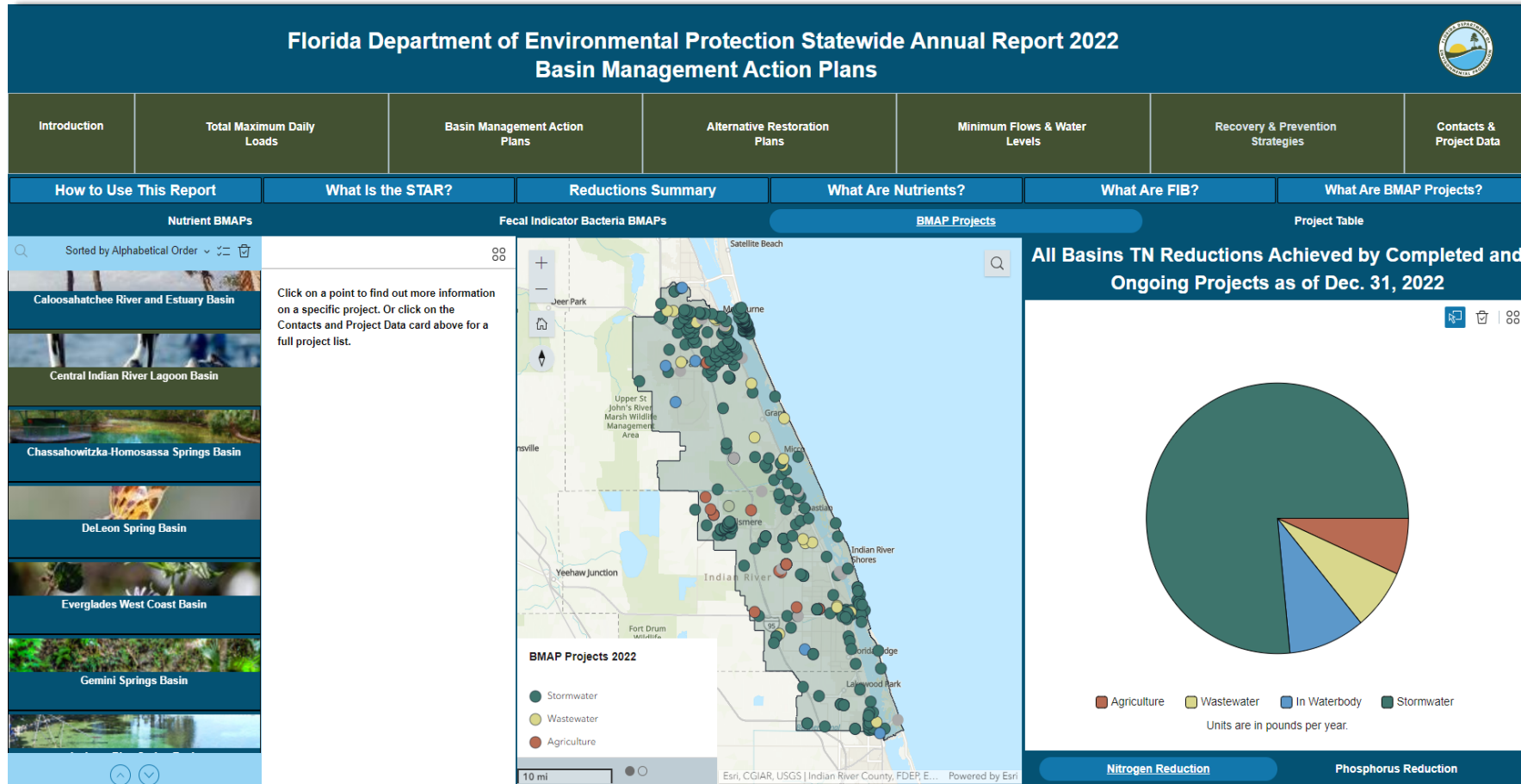


Questions?





STAR STATEWIDE ANNUAL REPORT



- Report will be 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.

<https://floridadep.gov/STAR>



STAR BMAP PORTAL FOR PROJECT COLLECTION

- 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

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

[Workflow](#)

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

Search Criteria

Updates Complete? ⓘ

Lead Entity: *

Please select

BMAP ID: *

None selected

Notify Coordinator

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

[Move to Next Review Stage](#) [+ Create New Project](#) [Create Duplicate Project](#)

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
☐		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	3628	SFWM	SFWM-03	...	...	...	...	2009



STAR

*PRELIMINARY 2023 STATUS OF PROJECTS

North IRL (NIRL)

Lead Entity	Completed	Ongoing	Planned	Underway	Total
Brevard County	99	14	18	2	133
City of Cocoa	21	3	1	3	28
City of Edgewater	0	1	0	0	1
City of Melbourne	23	2	4	8	37
City of Rockledge	32	2	4	2	40
City of Titusville	31	4	7	3	45
FDACS	0	4	0	0	4
FDOT District 5	20	4	0	2	26
Kennedy Space Center	18	0	0	2	20
SJRWMD	1	0	0	0	1
Town of Indialantic	4	1	0	0	5
Town of Palm Shores	1	1	0	0	2
Volusia County	0	4	1	2	7
Total	250	40	35	24	349

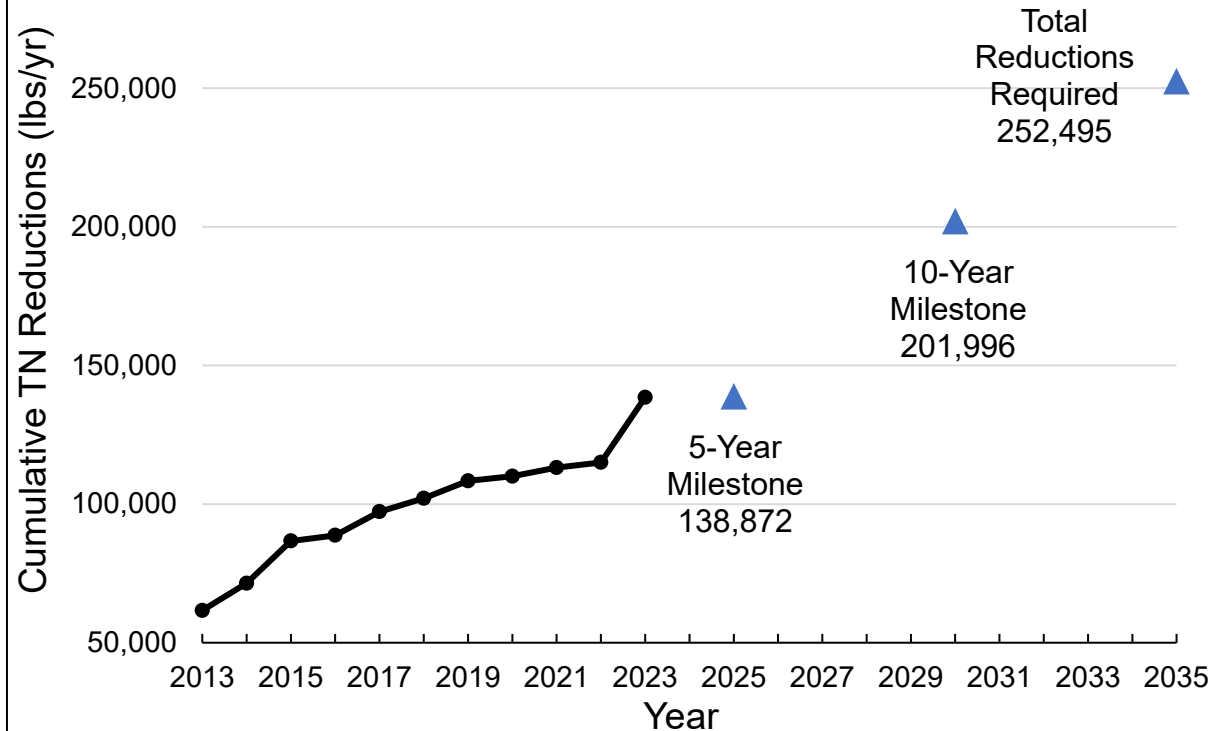


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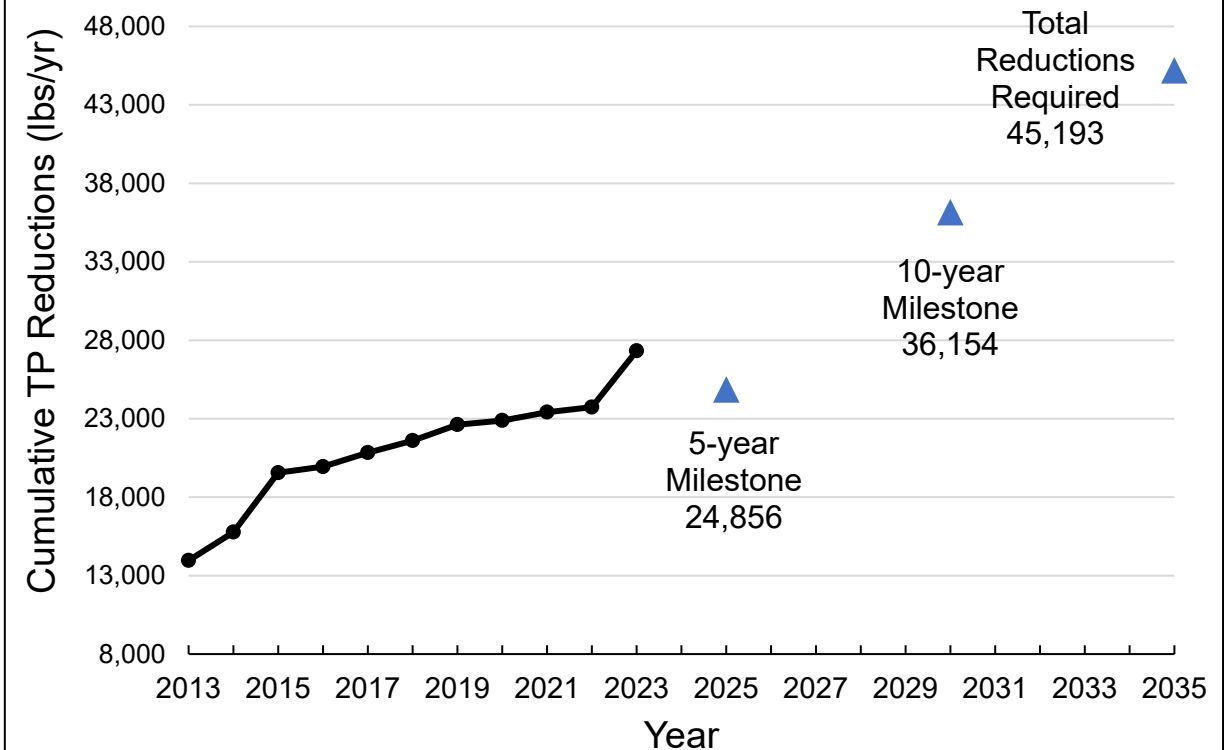
*PRELIMINARY 2023 STATUS OF PROJECTS

North IRL (NIRL)

NIRL TN Project Reductions



NIRL TP Project Reductions





STAR

*PRELIMINARY 2023 STATUS OF PROJECTS

Banana River (BRL)

Lead Entity	Completed	Ongoing	Planned	Underway	Total
Brevard County	44	9	11	2	66
Cape Canaveral Space Force Station	9	2	0	2	13
City of Cape Canaveral	29	4	4	1	38
City of Cocoa Beach	35	3	3	1	42
City of Indian Harbour Beach	19	3	5	5	32
City of Satellite Beach	45	2	11	2	60
FDACS	2	2	0	0	4
FDOT District 5	5	4	0	0	9
Kennedy Space Center	27	0	0	2	29
Patrick Space Force Base	18	3	1	4	26
Total	233	32	35	19	319

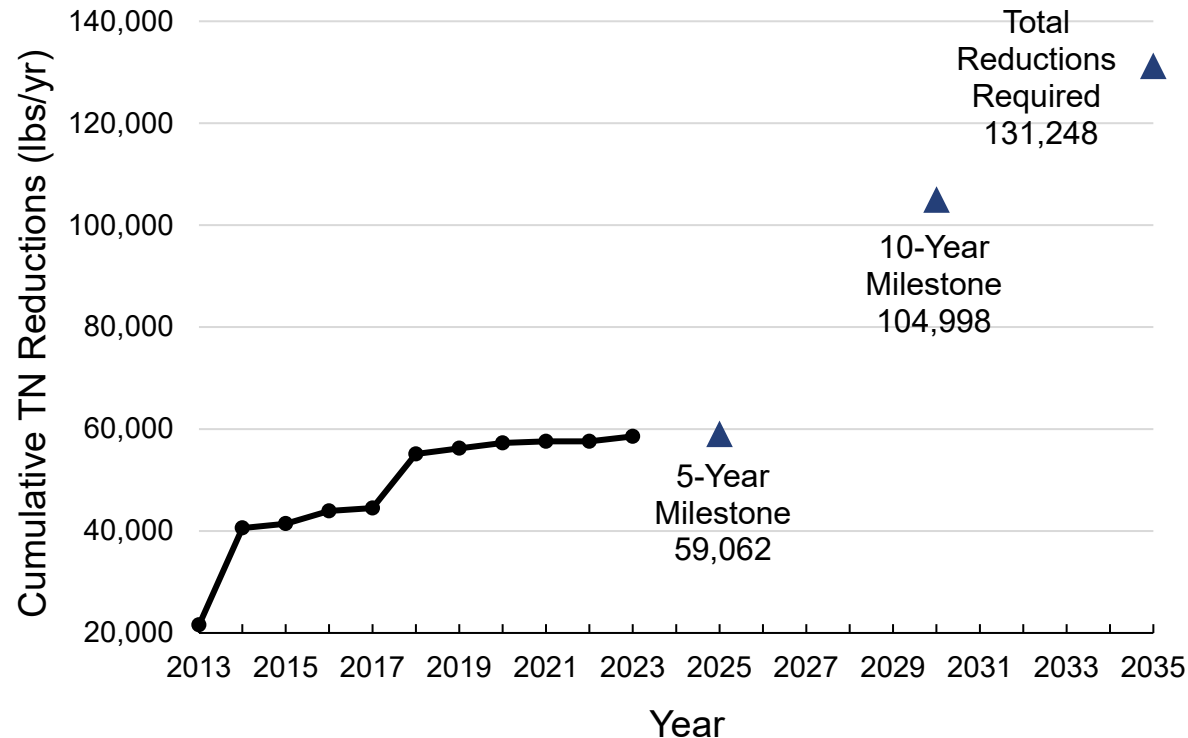


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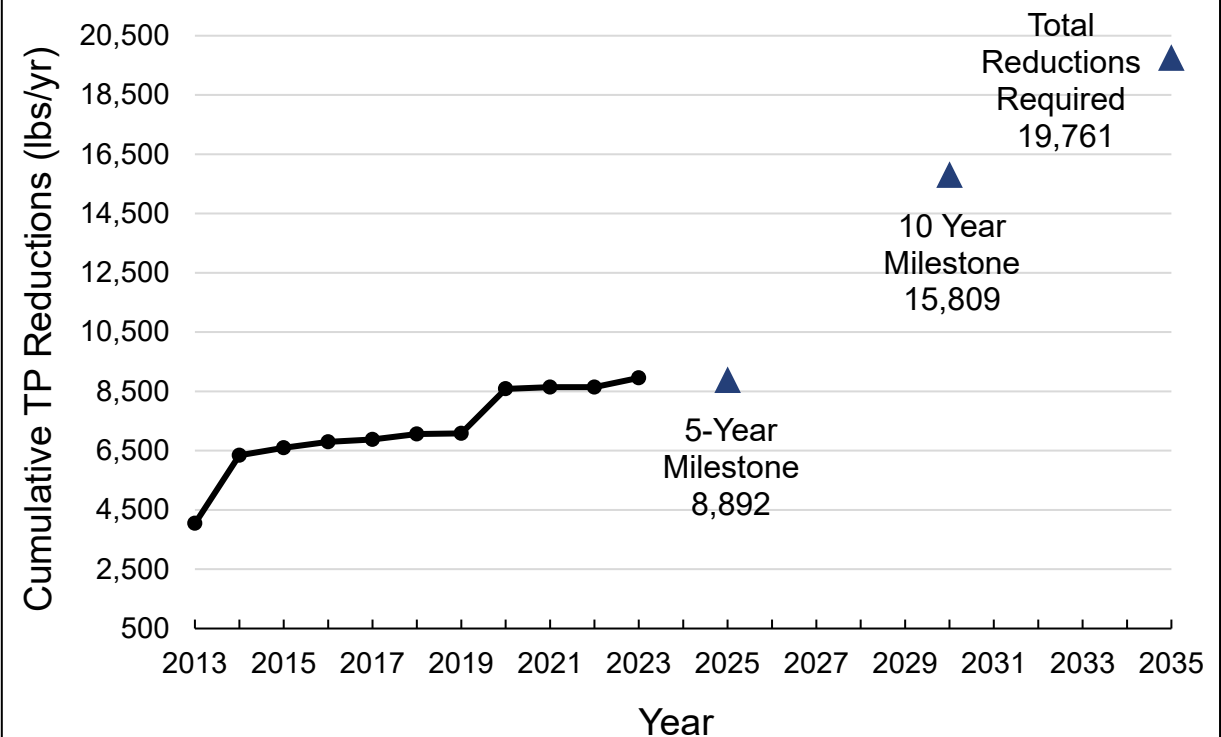
*PRELIMINARY 2023 STATUS OF PROJECTS

Banana River (BRL)

BRL TN Project Reductions



BRL TP Project Reductions





STAR

*PRELIMINARY 2023 STATUS OF PROJECTS

Central IRL (CIRL)

Lead Entity	Completed	Ongoing	Planned	Underway	Total
Brevard County	31	6	1	5	43
City of Fellsmere	8	1	8	2	19
City of Fort Pierce	0	2	0	0	2
City of Melbourne	5	2	3	6	16
City of Palm Bay	32	3	4	1	40
City of Sebastian	15	2	0	0	17
City of Vero Beach	17	3	1	3	24
City of West Melbourne	24	2	0	3	29
FDACS	4	4	0	0	8
FDOT District 4	38	6	0	0	44
FDOT District 5	11	3	0	0	14
Fellsmere WCD	5	4	1	1	11
Fort Pierce Farms WCD	2	4	0	2	8
Indian River County	14	5	6	7	32
Indian River Farms WCD	1	4	0	0	5



STAR

*PRELIMINARY 2023 STATUS OF PROJECTS

Central IRL (CIRL)

Melbourne Tillman WCD	17	3	0	1	21
North St. Lucie River WCD	2	3	0	2	7
Sebastian River Improvement District	0	4	3	1	8
SJRWMD	8	0	3	2	13
St. Lucie County	7	2	2	3	14
St. Lucie Village	1	1	1	0	3
Town of Indialantic	1	3	1	1	6
Town of Indian River Shores	2	3	0	0	5
Town of Malabar	2	2	0	1	5
Town of Melbourne Beach	52	0	1	2	55
Town of Melbourne Village	3	1	0	0	4
Town of Orchid	0	1	0	0	1
Turnpike Enterprise	0	2	0	0	2
Vero Lakes WCD	0	3	0	1	4
Town of Grant-Valkaria	2	0	0	0	2
Total	304	79	35	44	462

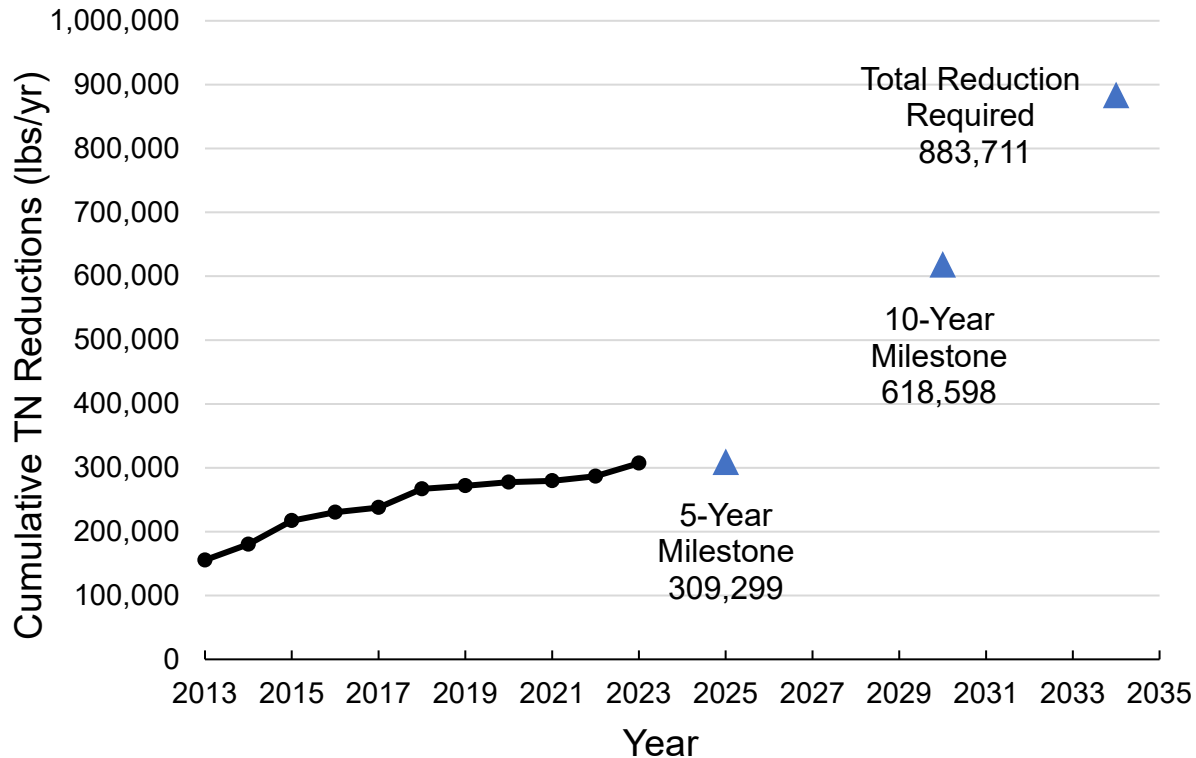


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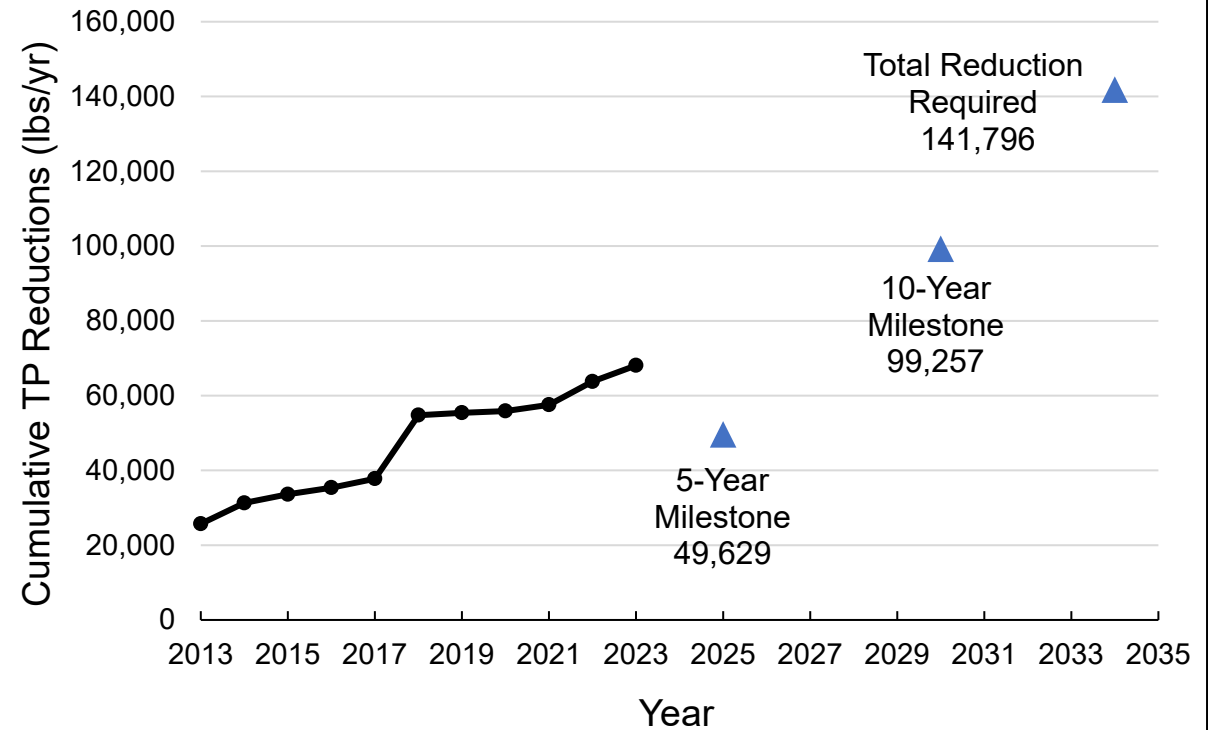
*PRELIMINARY 2023 STATUS OF PROJECTS

Central IRL (CIRL)

CIRL TN Progress Chart



CIRL TP Progress Chart





UPCOMING BMAP UPDATE COMPONENTS

- Spatial Watershed Iterative Loading (SWIL) model update.
- Entity allocation updates.
- Establish entity milestones.
- Incorporate additional projects.
- Incorporate Clean Waterways Act Requirements
- Incorporate HB 1379 requirements.
- Develop a hot spot analysis.
- Seagrass evaluation.
- Additional water quality analyses.
- Evaluate any needed updates to the monitoring network.
- Evaluate wastewater effluent limits.



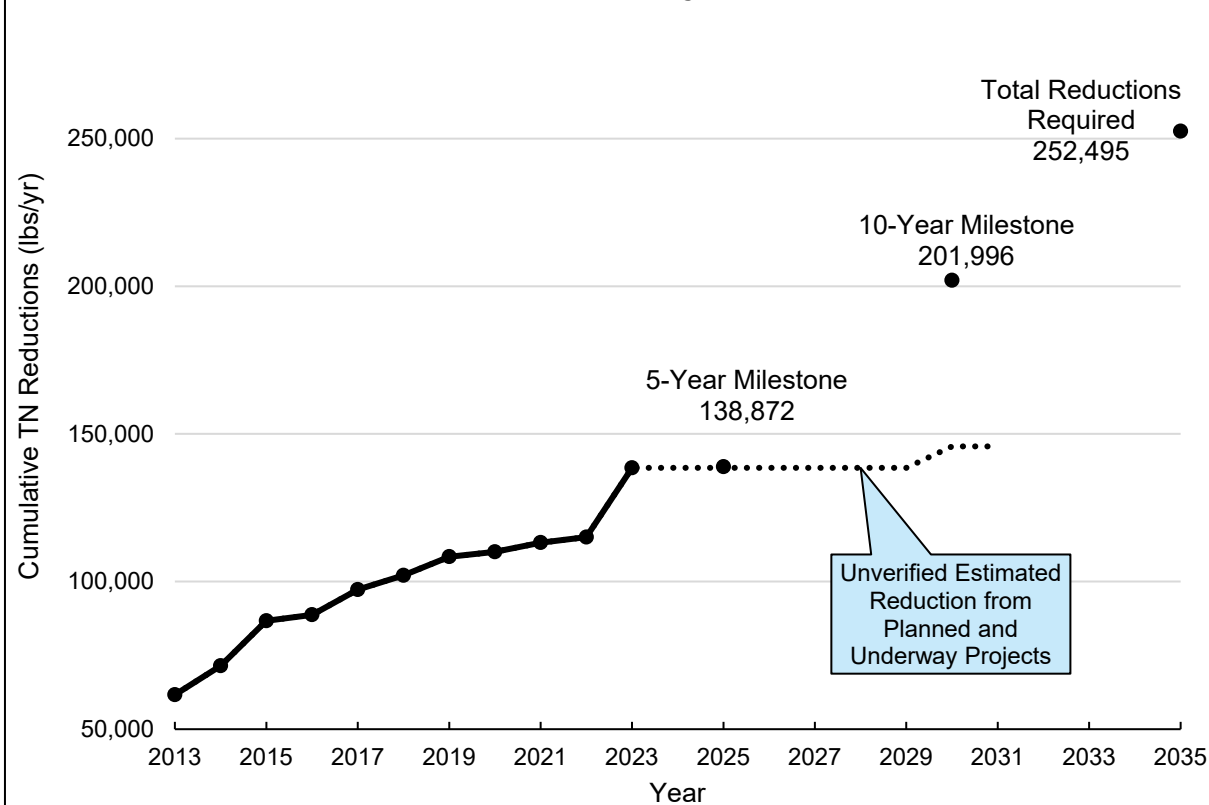


UPCOMING BMAP UPDATE

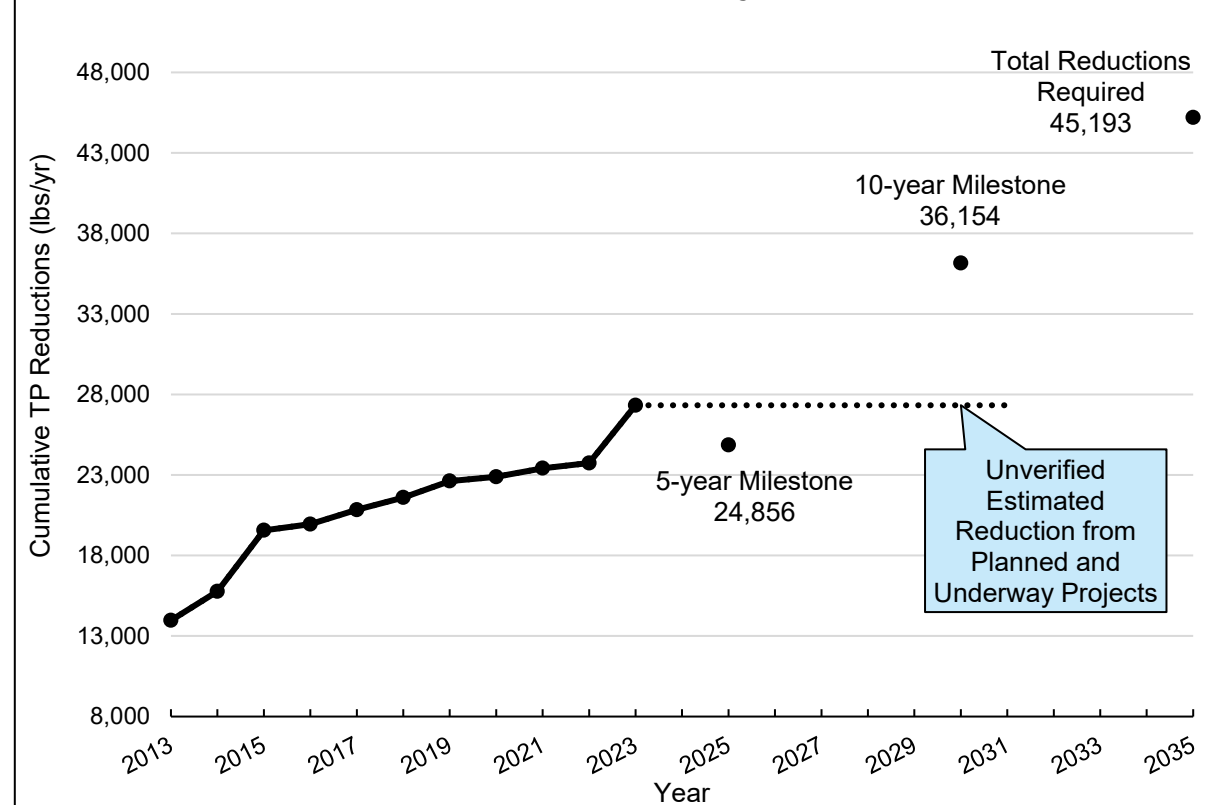
ENTITY MILESTONES

North IRL (NIRL)

NIRL TN Estimated Project Reductions



NIRL TP Estimated Project Reductions



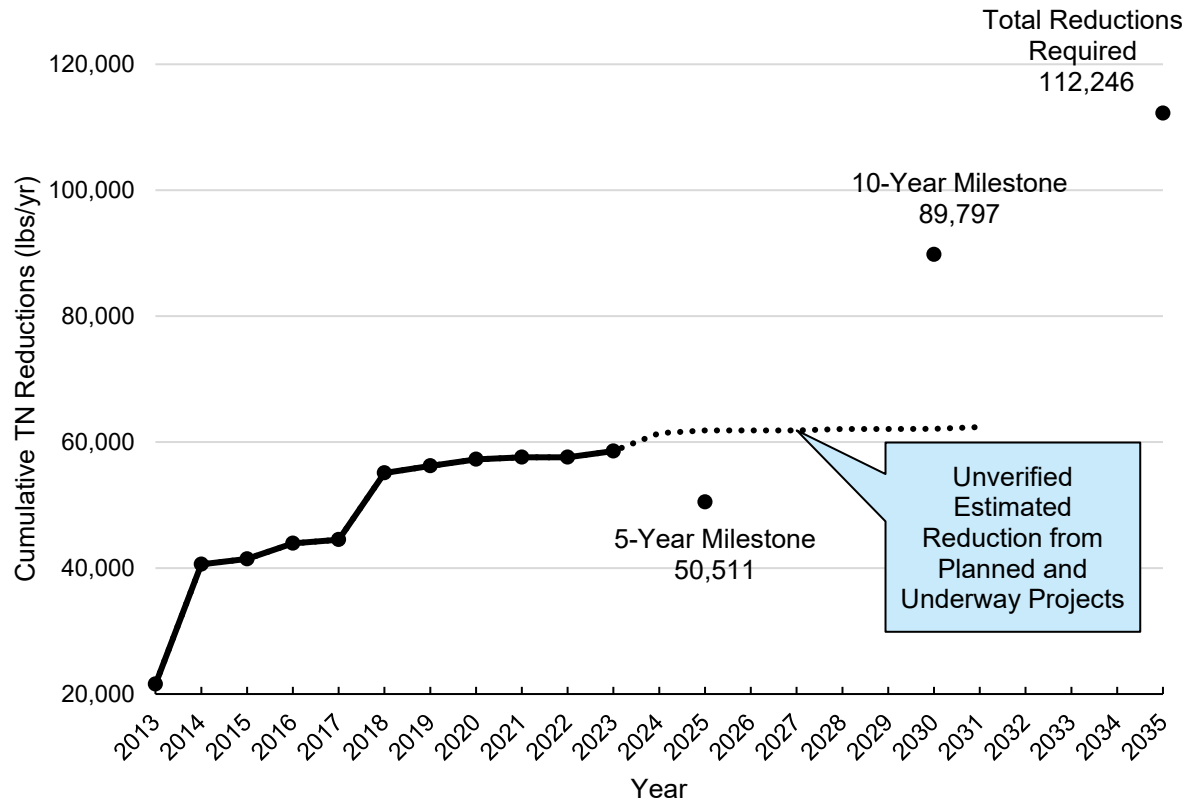


UPCOMING BMAP UPDATE

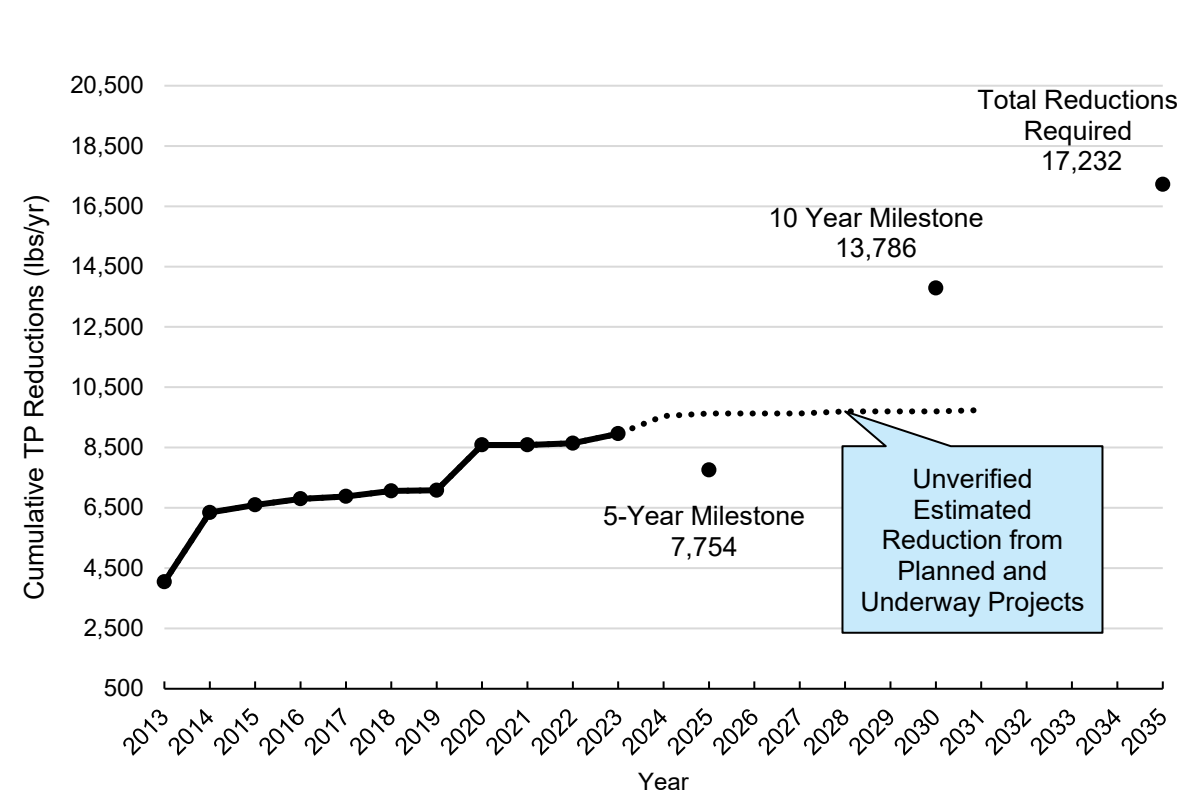
ENTITY MILESTONES

Banana River (BRL)

BRL TN Estimated Project Reductions



BRL TP Estimated Project Reductions



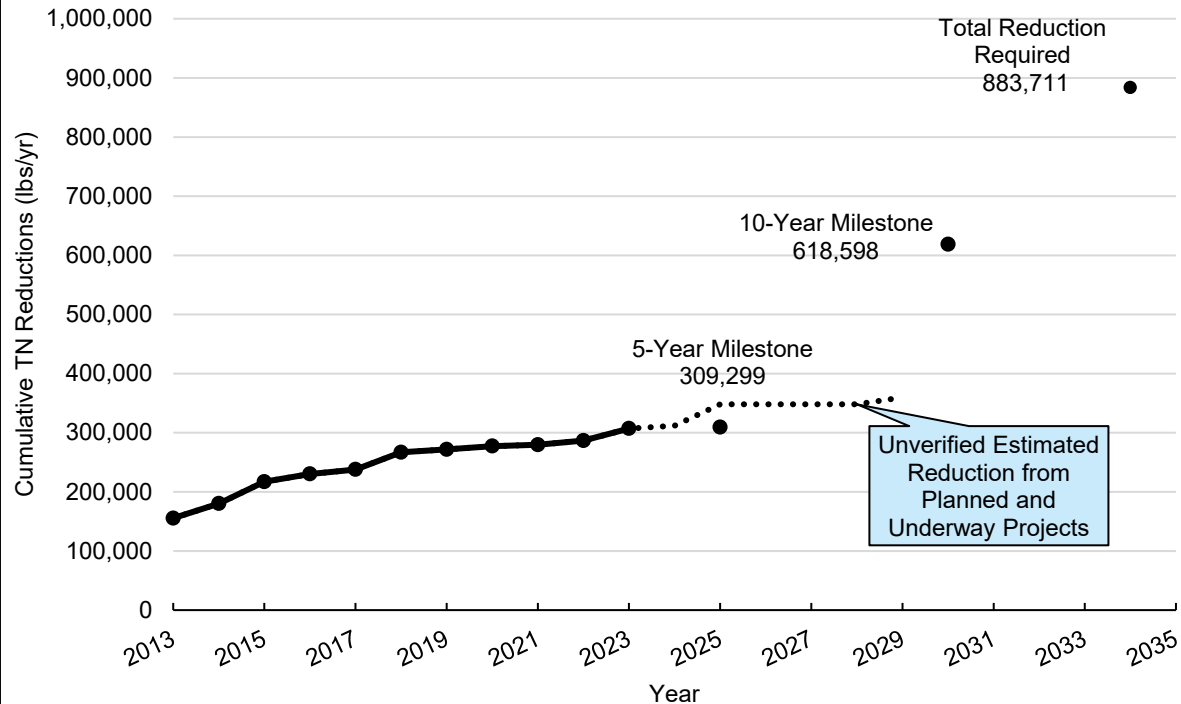


UPCOMING BMAP UPDATE

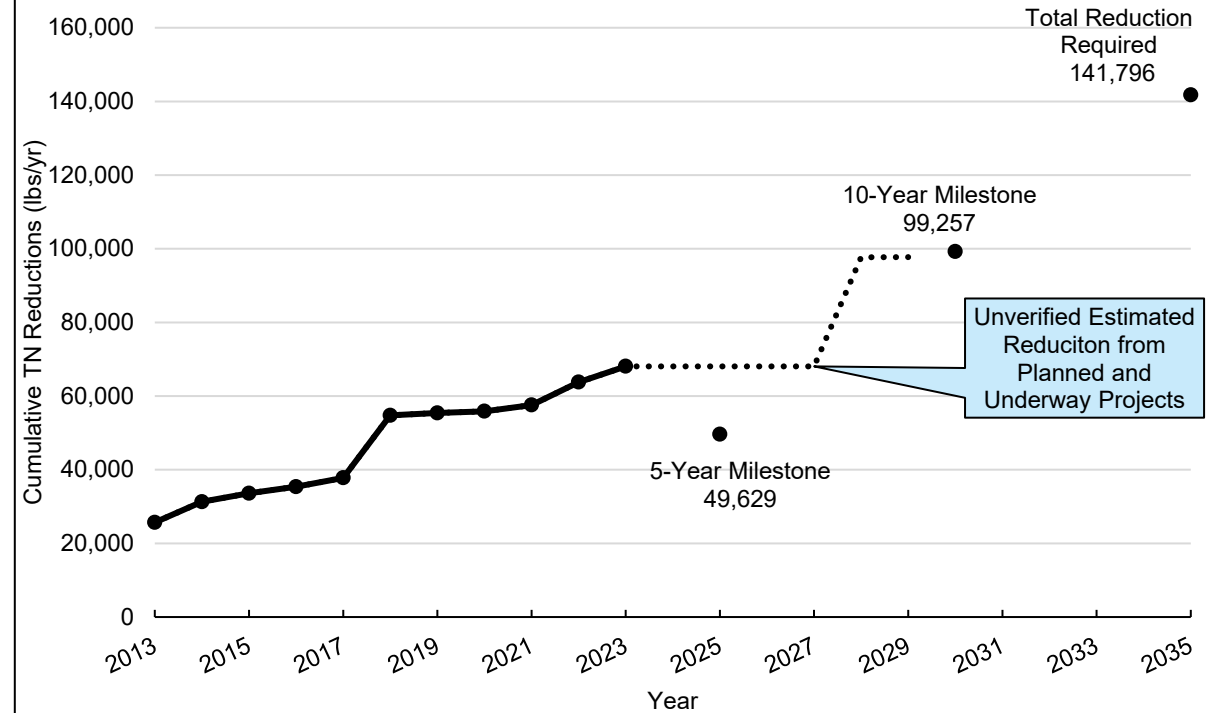
ENTITY MILESTONES

Central IRL (CIRL)

CIRL TN Estimated Progress Chart



CIRL TP Estimated Progress Chart





HOTSPOT ANALYSIS DEVELOPMENT

OVERVIEW

Purpose:

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

Analysis is NOT to determine BMAP or TMDL compliance.

Analysis:

- Analysis uses stations with two to five years of data.
- Analysis uses four statistical components to determine an overall index ranking.
- Analysis does not itself identify sources, rather identifies areas that warrant additional investigation.



HOTSPOT ANALYSIS DEVELOPMENT

COMPONENTS OF THE HOTSPOT 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:

- Numeric Nutrient Criteria for Southern IRL area
 - TN – 0.72 mg/L.
 - TP – 0.07 mg/L.



HOTSPOT 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.



HOTSPOT ANALYSIS DEVELOPMENT

FINAL OVERALL RANK

**Average Rank
+
Percentile Rank
+
SD Rank
+
Frequency Rank**

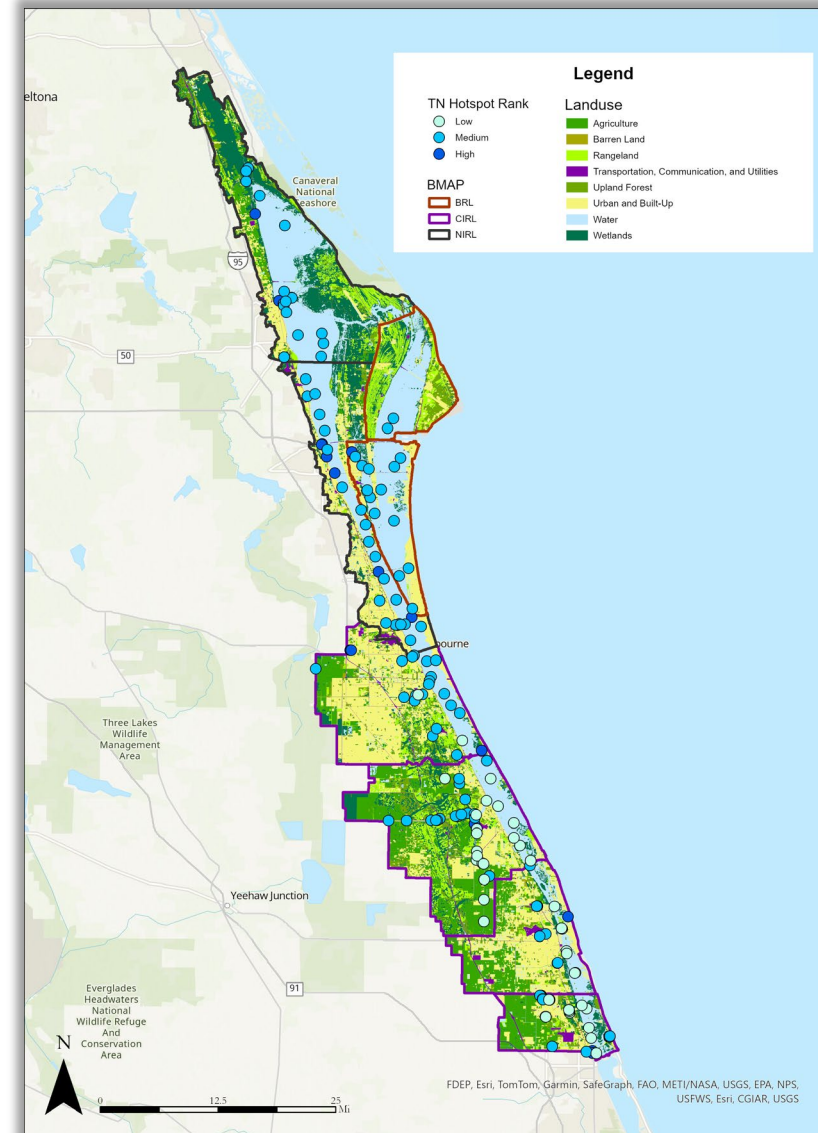
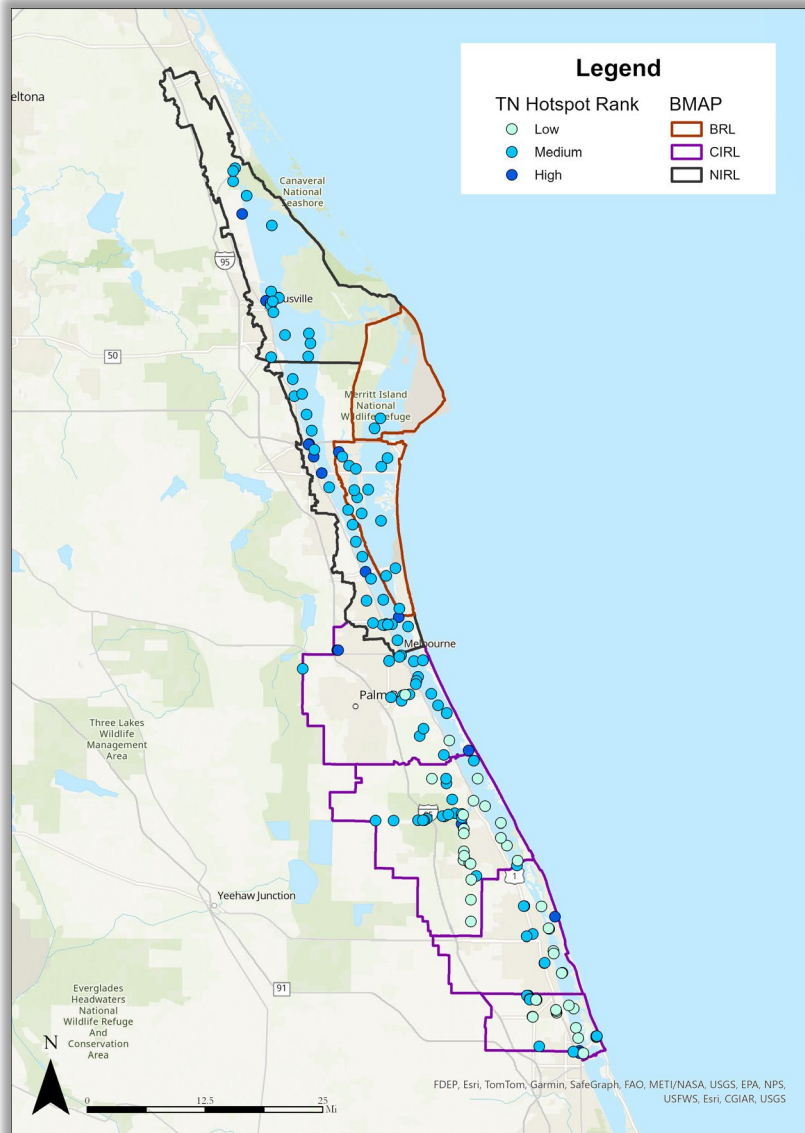
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Total Index Rank

Rank 0 = Least Concern
Rank 8 = High Concern



HOTSPOT ANALYSIS RESULTS EXAMPLE RESULTS





UPCOMING SCHEDULE

Feb.
2024

Draft wastewater and OSTDS plans due from stakeholders.

Feb.- Dec.
2024

Stakeholder meetings/technical analyses/draft document.

Final wastewater and OSTDS plans due from stakeholders.

Aug.
1, 2024

SWIL update completed.

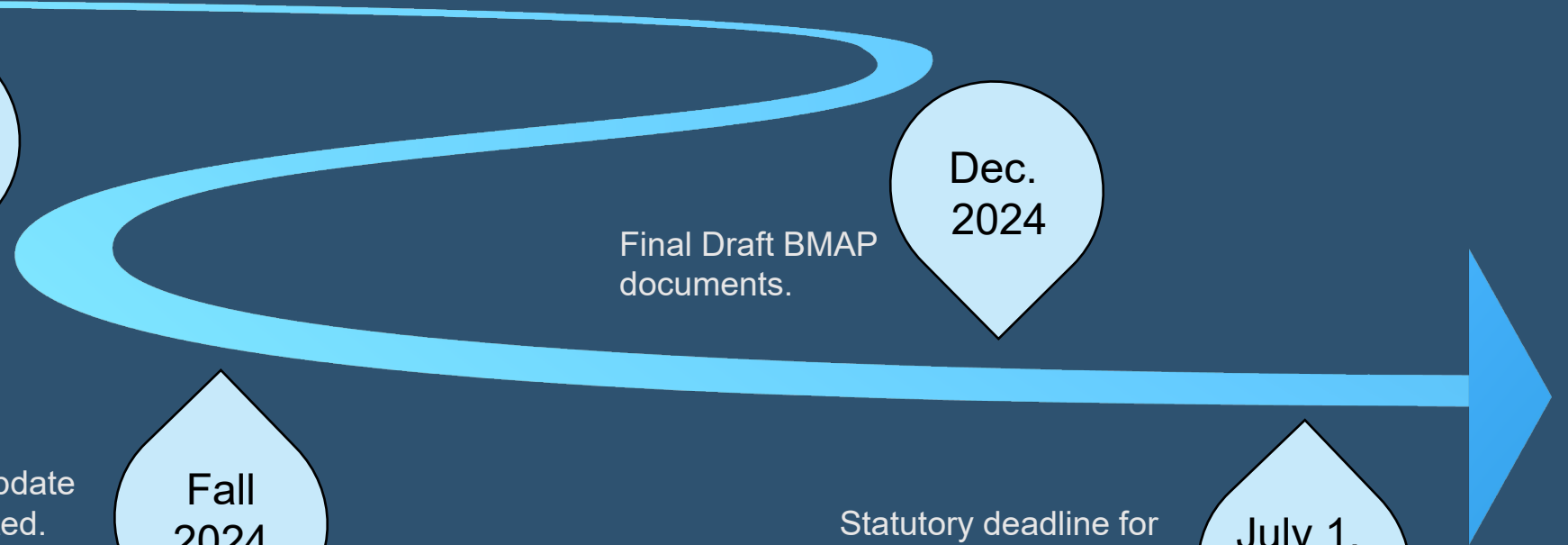
Fall
2024

Final Draft BMAP documents.

Dec.
2024

Statutory deadline for updated nutrient BMAPs.

July 1,
2025



Indian River Lagoon BMAP Annual Meeting

April 25, 2024

Yesenia Escribano

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 Indian River Lagoon Basin
 - Unenrolled Agricultural Lands Classification
- Mail Out Efforts
- BMP Implementation Verification (IVs)
- BMP Enrollment Viewer Web App

Legislative Report



Office of Agricultural Water Policy (OAWP)

- **West Gregory**; Director West.Gregory@FDACS.gov
- **J.P. Fraites**; Asst. Director John.Fraites@FDACS.gov
- **Bret Prater**; Asst. Director Bret.Prater@FDACS.gov
- **Angela Chelette**; Chief of Policy Planning and Coordination
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- **Steve Smith**; Chief of Field Services Steve.Smith@FDACS.gov



OAWP Staff

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- **Raulie Raulerson;** Environmental Administrator - Field Services
Raulie.Raulerson@fdacs.gov
- **Stacey Simmons;** Environmental Manager - Field Services
Stacey.Simmons@fdacs.gov



OAWP Responsibilities

- **Section 403.067, F.S.**
 - Outlines coordination with FDACS on the development of TMDLs and BMAPs
 - Provides for development and adoption of Best Management Practices (BMPs) by FDACS as a tool to meet agricultural pollutant load allocations in BMAPs
- **Section 373.469, F.S.**
 - Requires coordination with FDACS to identify and prioritize strategies to achieve water quality standards in the IRL watershed



OAWP Responsibilities



Development and implementation of agricultural best management practices (BMPs)

Implementation of cost share programs

Water supply and water quality planning and coordination

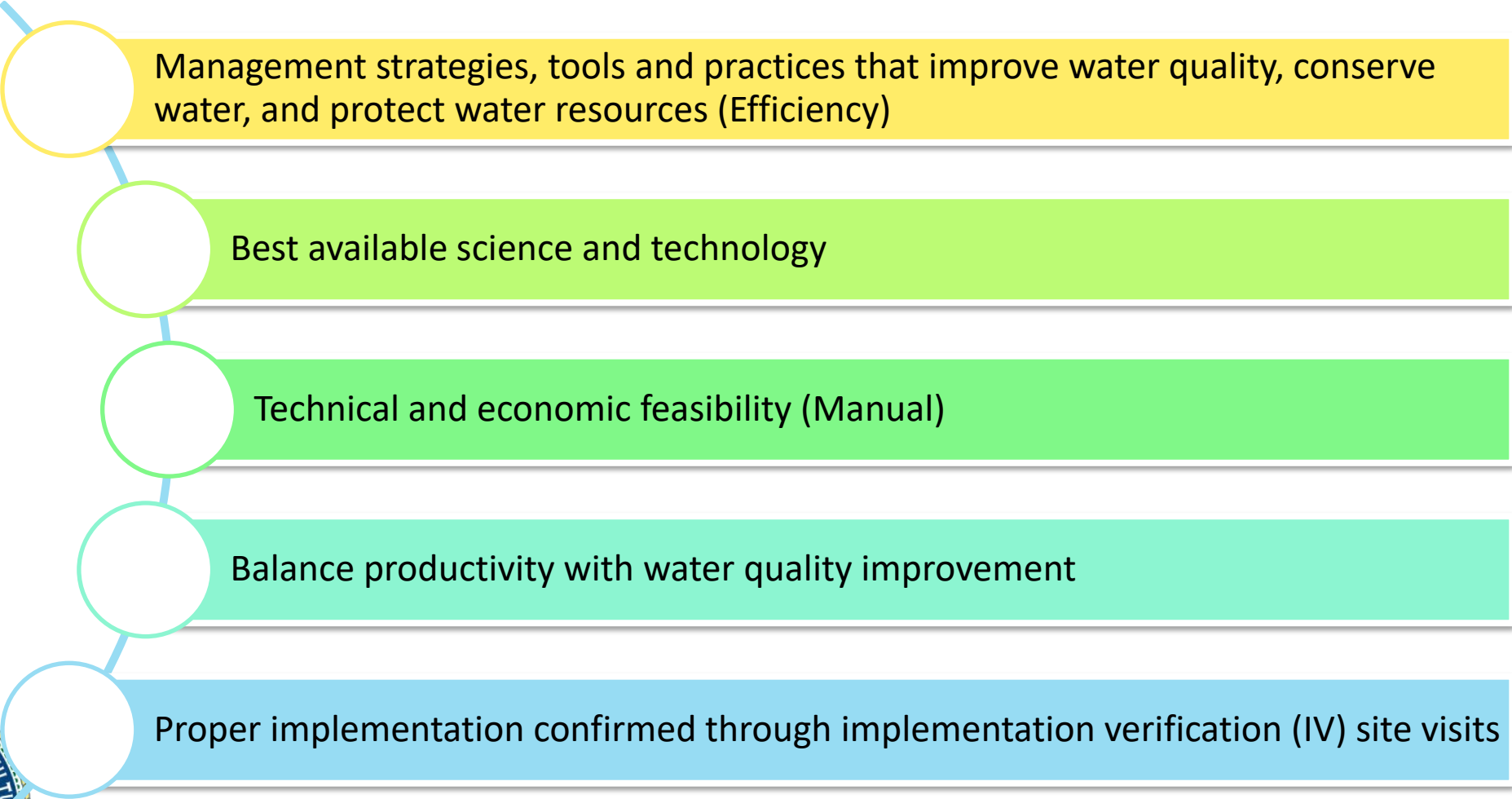
Scientific and technical research

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

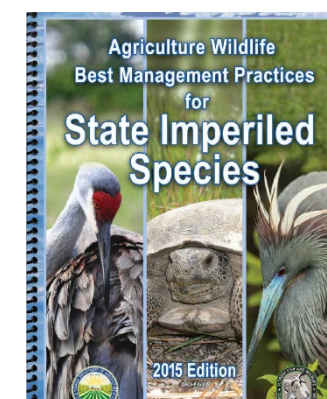
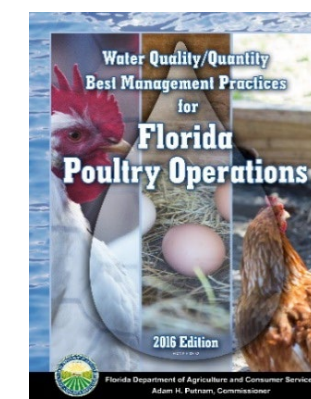
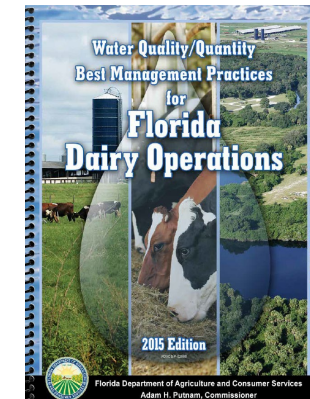
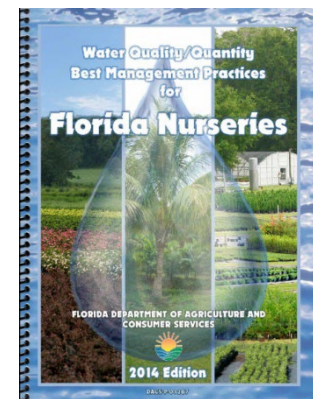
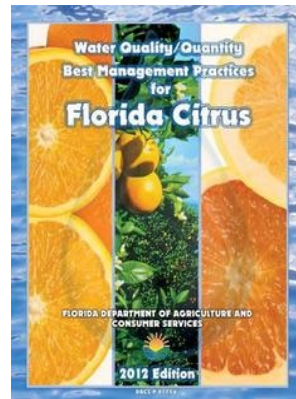
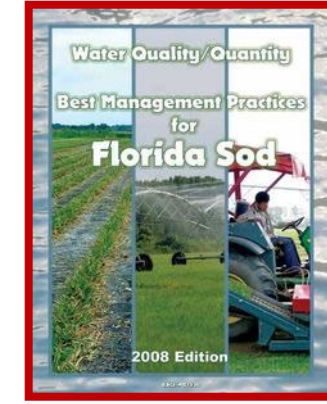
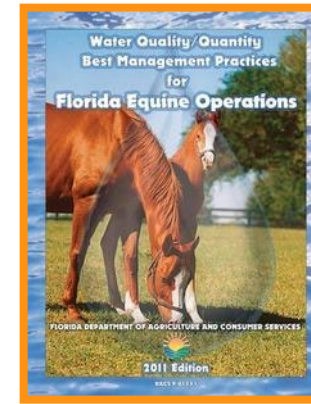
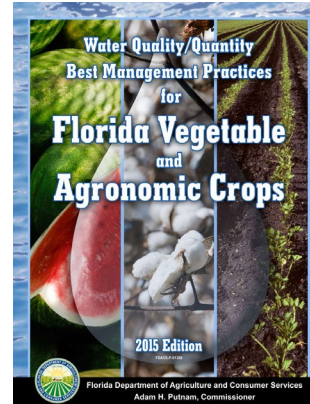
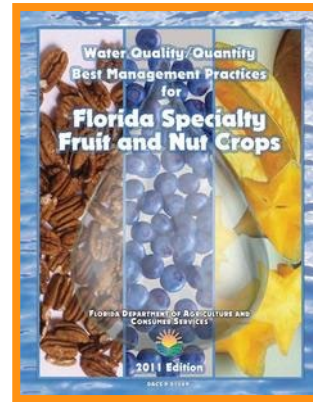
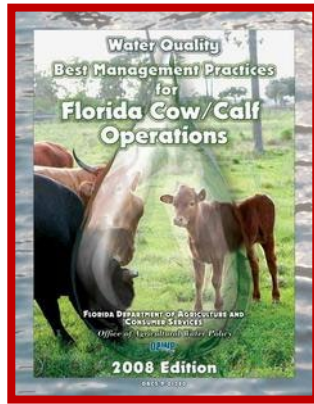
Technical and economic feasibility (Manual)

Balance productivity with water quality improvement

Proper implementation confirmed through implementation verification (IV) site visits



BMP Manuals

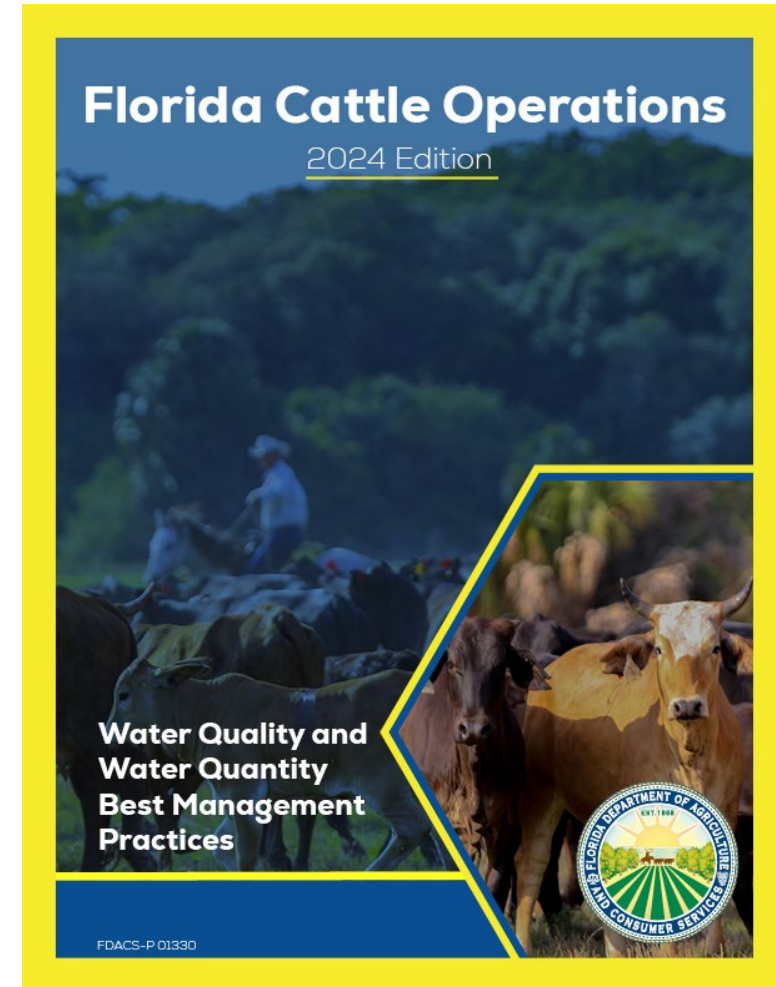


Update BMP Manuals: Status

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				
	3	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 supplier analysis, NRCS guidelines			



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 Indian River Lagoon BMAP

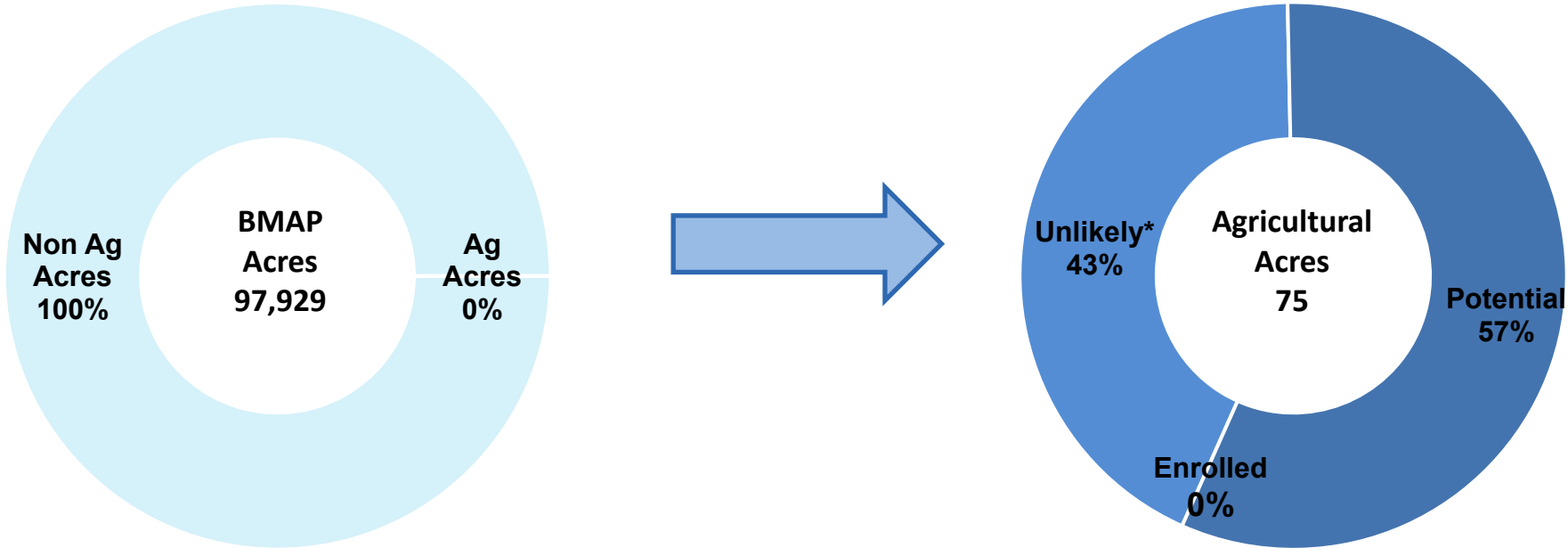
BMAP	Project Zone	Total Ag Acres	Enrolled Ag Acres	% Enrolled	Irrigated Acres	Enrolled Irrigated Acres	% Enrolled Irrigated
Banana	-	75	0.05	0%	0.05	0.05	100%
Central	A	9,898	382	4%	181	33	18%
Central	B	16,138	1,778	11%	1,667	454	27%
Central	SEB	33,464	10,277	31%	5,274	3,274	62%
Central	SIRL	12,664	2,650	21%	2,512	1,503	60%
North	A	5,383	385	7%	265	112	42%
North	B	1,412	228	16%	91	15	16%



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

Agricultural Lands within Banana BMAP

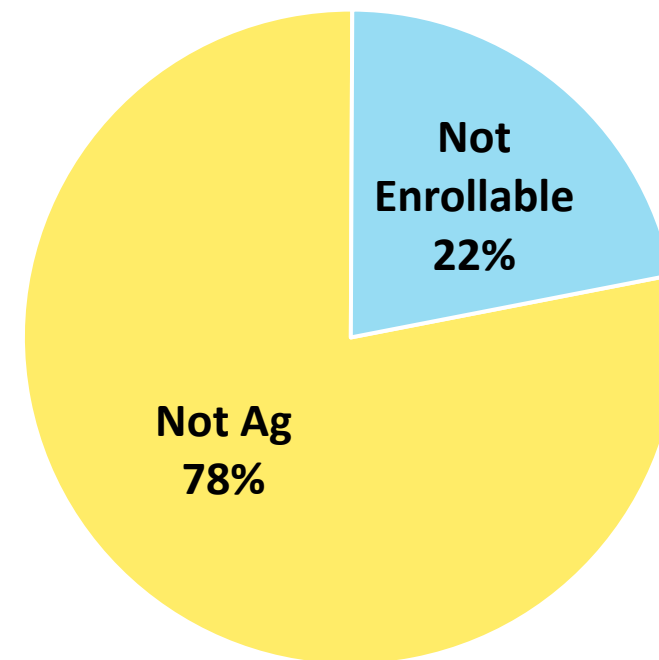
BMAP Non-Agricultural Acres	BMAP Agricultural Acres	Enrolled Agricultural Acres	Unenrolled - Unlikely Enrollable Acres *	Unenrolled - Potentially Enrollable Acres
97,854	75	0	32	43



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

Unenrolled - Unlikely Enrollable Acres within Banana BMAP

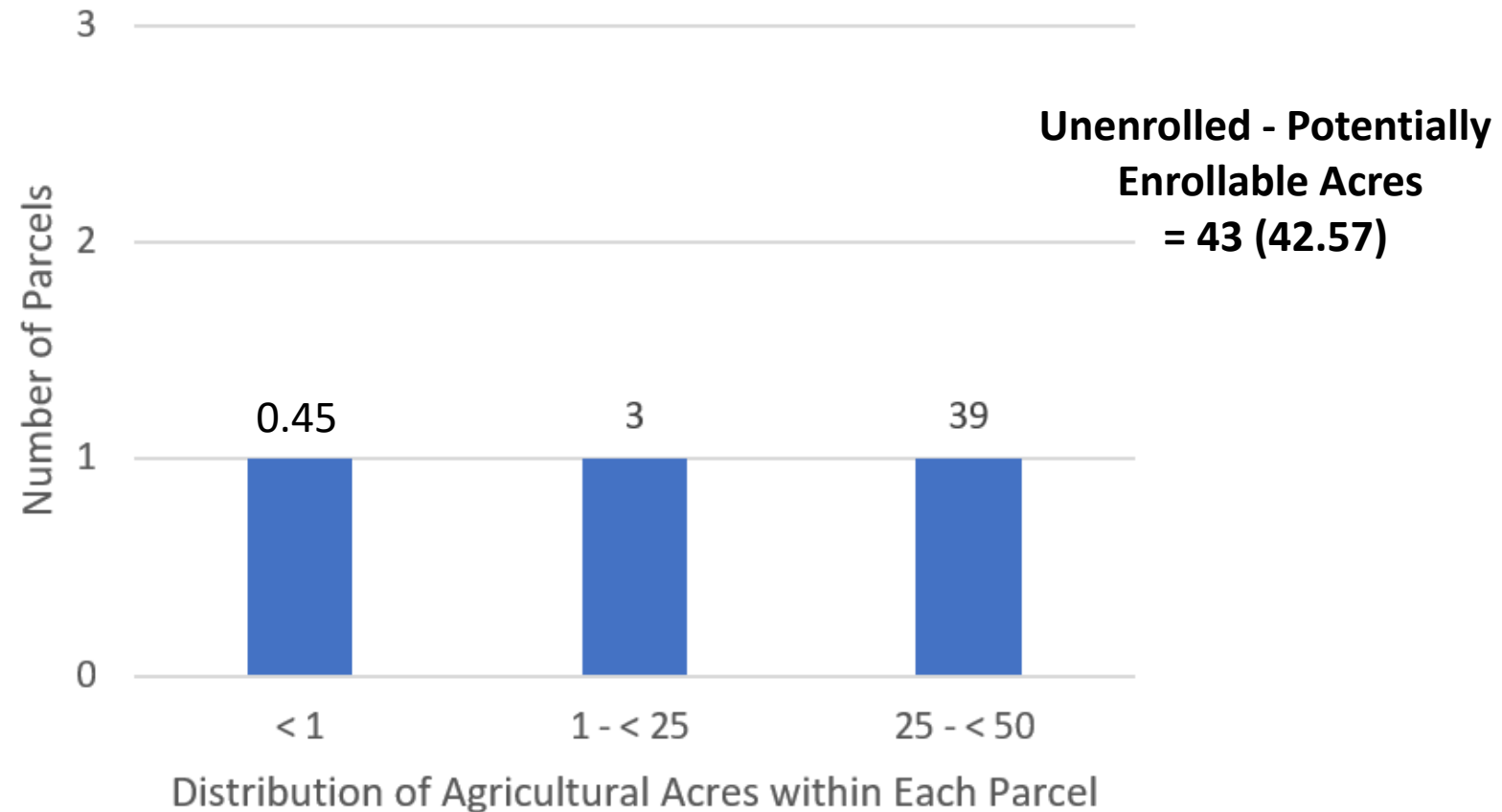
Category	Acres
State Lands, Surface Water Projects	0
Timberland and Aquaculture**	0
Not Agriculture [e.g., DOR Use Code 70-99 (industrial or institutional use, acreage not zoned agricultural)]	25
Not Enrollable [e.g., missing parcel information, no overlap, conflicting parcel info, slivers]	7



Unenrolled - Unlikely Enrollable Acres = 32

*** 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 Banana IRL BMAP



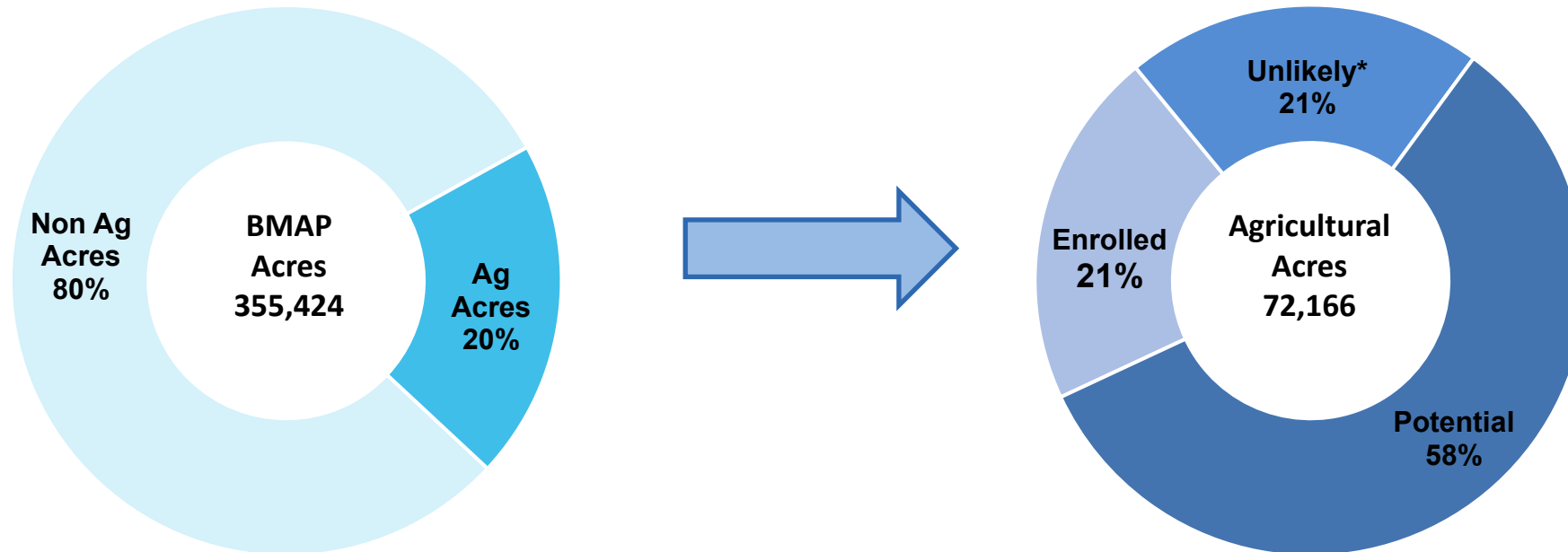
Agricultural Acres Enrolled within Central IRL BMAP

BMP Manual	Acres
Citrus	2,620
Cow/Calf	10,305
Dairy	0
Equine	21
Fruit & Nut	0
LOPP	0
Multiple Commodities	1,211
Nursery	153
Poultry	0
Row/Field Crop	777
Sod	0
Wildlife	0
Total	15,087



Agricultural Lands within Central IRL BMAP

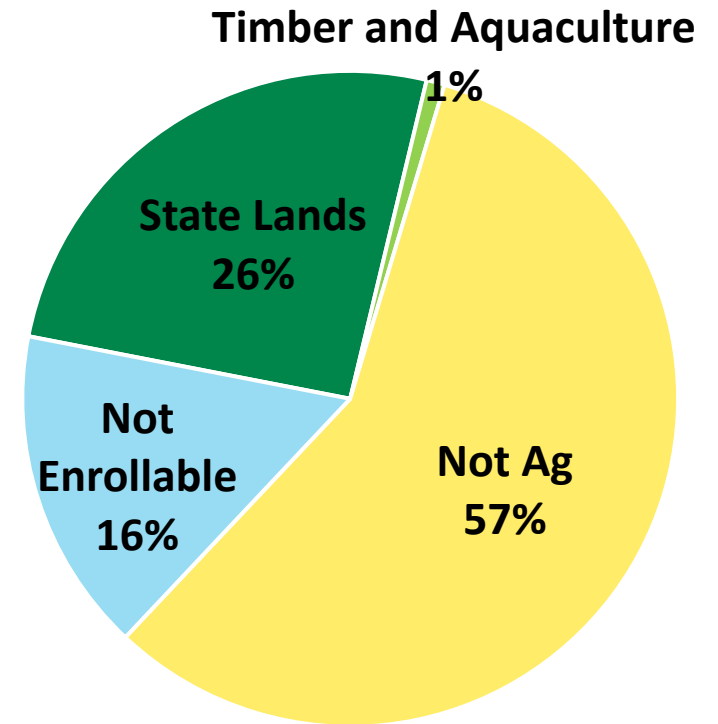
BMAP Non-Agricultural Acres	BMAP Agricultural Acres	Enrolled Agricultural Acres	Unenrolled - Unlikely Enrollable Acres *	Unenrolled - Potentially Enrollable Acres
283,258	72,166	15,087	15,403	41,677



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

Unenrolled - Unlikely Enrollable Acres within Central IRL BMAP

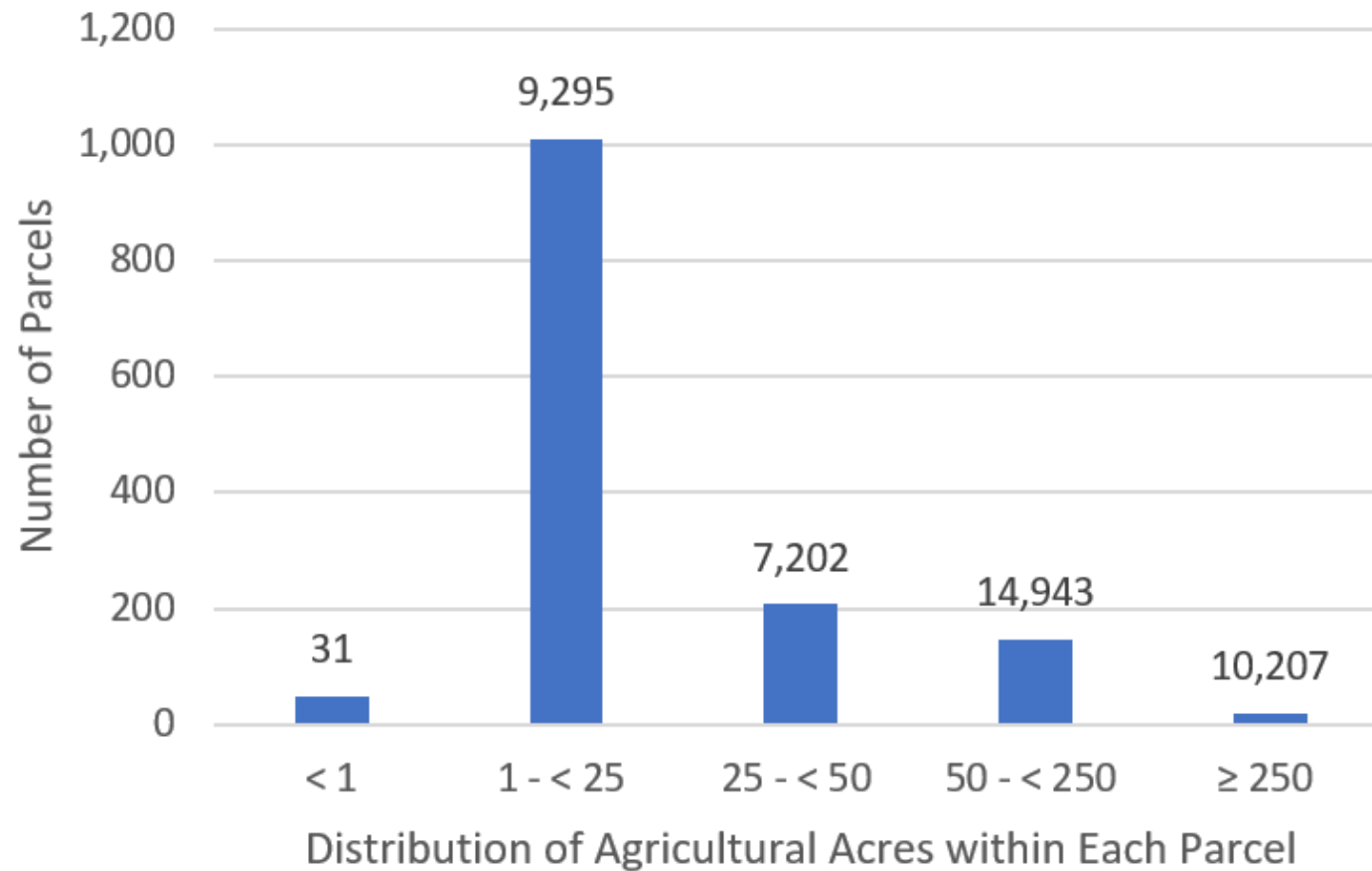
Category	Acres
State Lands, Surface Water Projects	3,956
Timberland and Aquaculture**	138
Not Agriculture [e.g., DOR Use Code 70-99 (industrial or institutional use, acreage not zoned agricultural)]	8,840
Not Enrollable [e.g., missing parcel information, no overlap, conflicting parcel info, slivers]	2,469



Unenrolled - Unlikely Enrollable Acres = 15,403

*** 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 Central IRL BMAP



**Unenrolled - Potentially
Enrollable Acres
= 41,677**



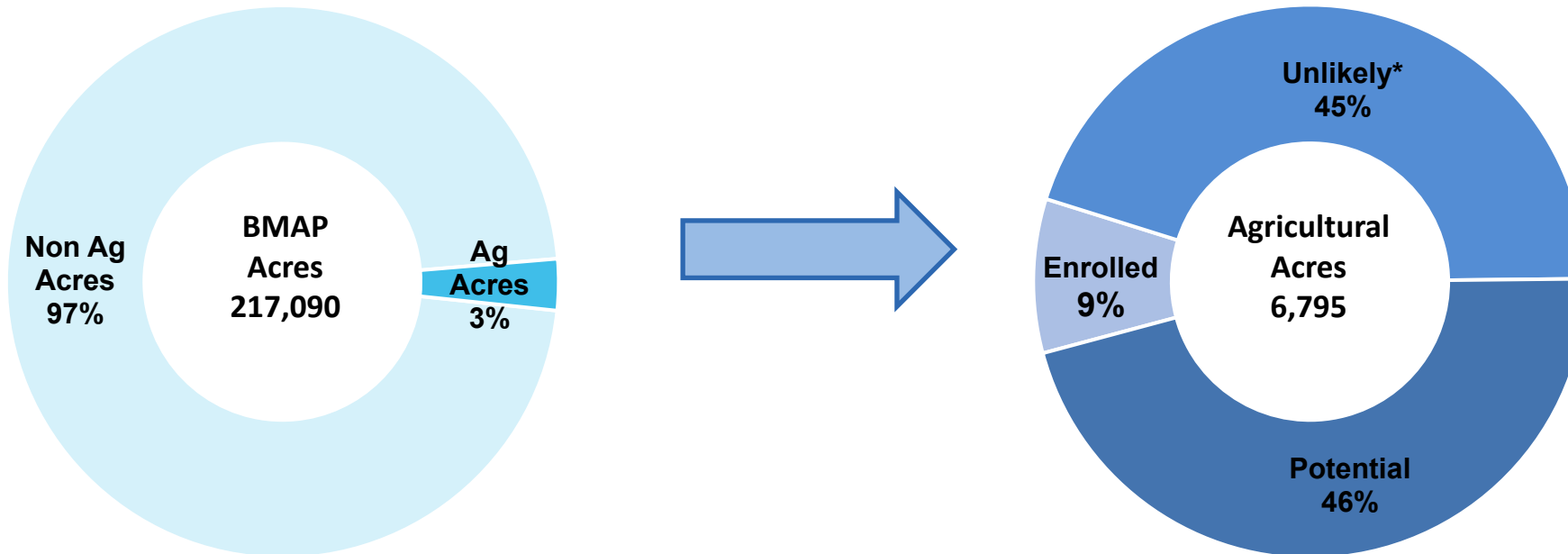
Agricultural Acres Enrolled within North IRL BMAP

BMP Manual	Acres
Citrus	246
Cow/Calf	189
Dairy	0
Equine	0
Fruit & Nut	34
LOPP	0
Multiple Commodities	143
Nursery	1
Poultry	0
Row/Field Crop	0
Sod	0
Wildlife	0
Total	613



Agricultural Lands within North IRL BMAP

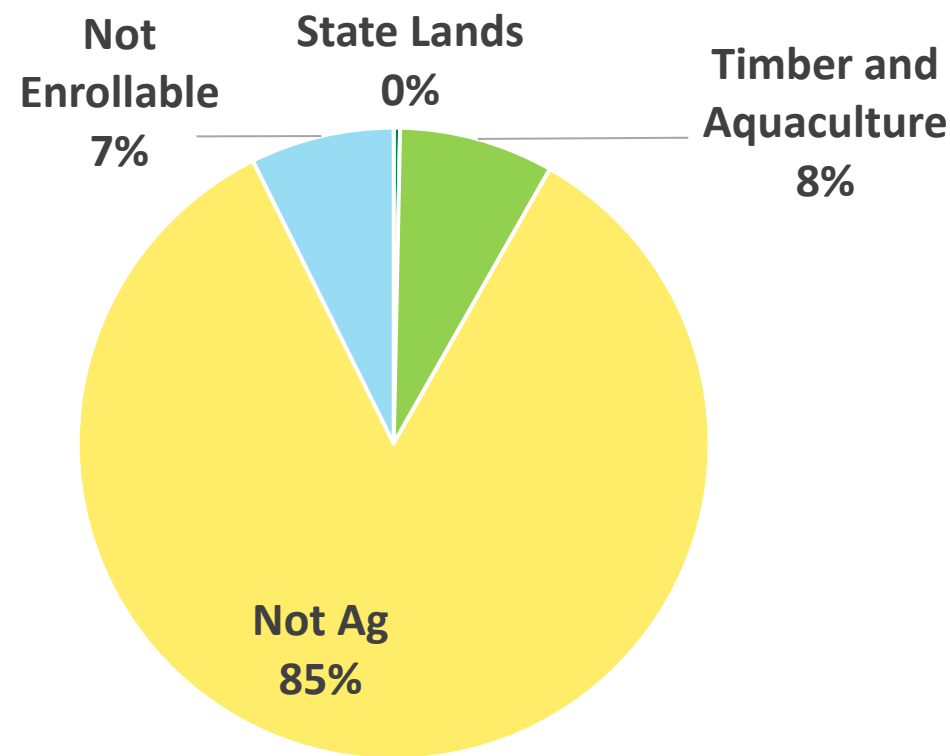
BMAP Non-Agricultural Acres	BMAP Agricultural Acres	Enrolled Agricultural Acres	Unenrolled - Unlikely Enrollable Acres *	Unenrolled - Potentially Enrollable Acres
210,295	6,795	613	3,065	3,117



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

Unenrolled - Unlikely Enrollable Acres within North IRL BMAP

Category	Acres
State Lands, Surface Water Projects	4
Timberland and Aquaculture**	243
Not Agriculture [e.g., DOR Use Code 70-99 (industrial or institutional use, acreage not zoned agricultural)]	2,593
Not Enrollable [e.g., missing parcel information, no overlap, conflicting parcel info, slivers]	226

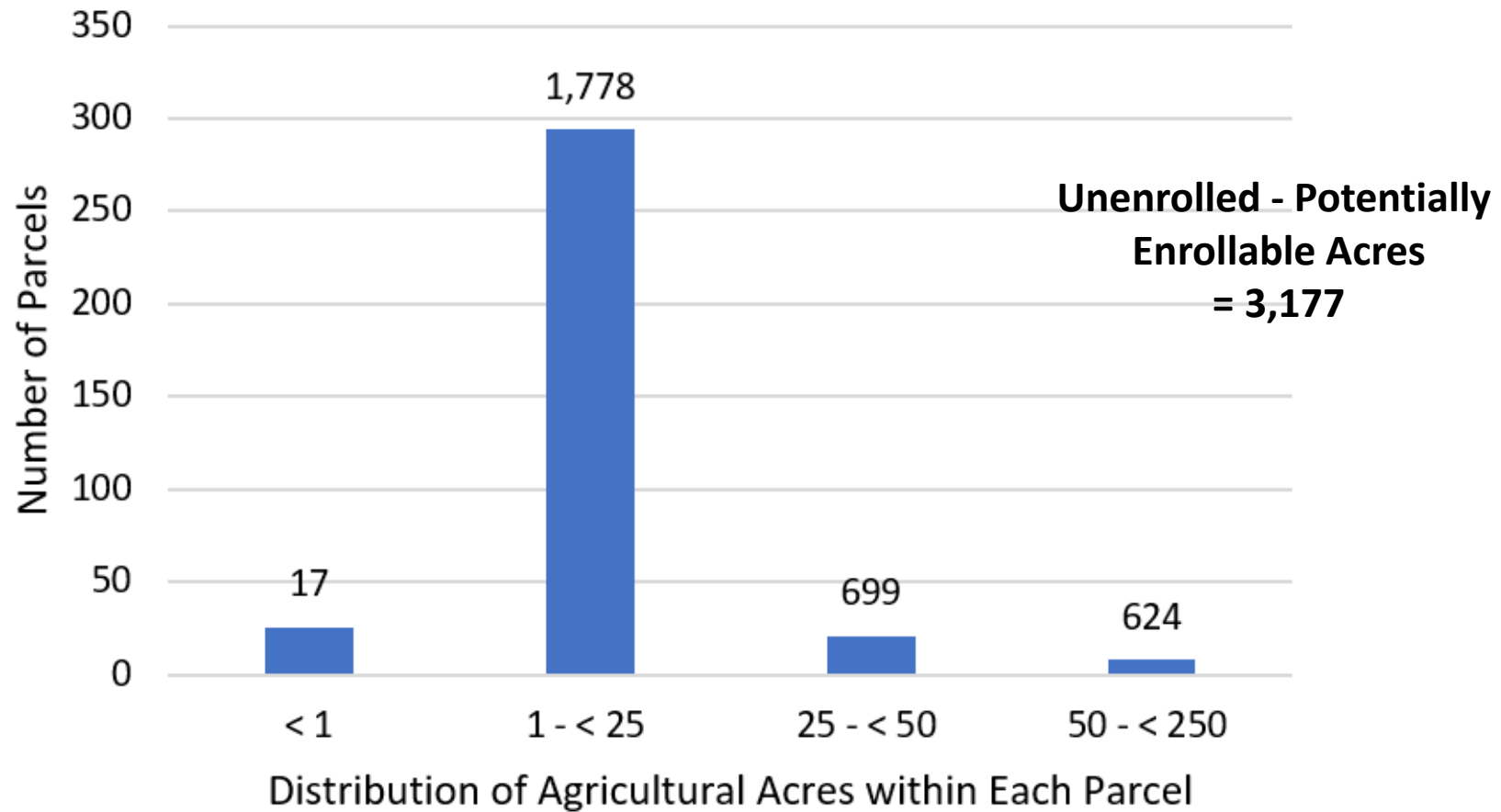


Unenrolled - Unlikely Enrollable Acres = 3,066 (3,065)

*** 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 North IRL BMAP



Mail Out Efforts

February 29th: 990 letters

April 1st : 114 responses

April 25th : 90 landowners
in queue for enrollment

June 12th : non responders
will be sent to DEP



OFFICE OF AGRICULTURAL WATER POLICY



THE MAYO BUILDING
407 SOUTH CALHOUN STREET
TALLAHASSEE, FLORIDA 32399-0800

FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES
COMMISSIONER WILTON SIMPSON

April 10, 2024
«OWN_NAME»
«OWN_ADDR1»
«OWN_ADDR2»
«OWN_CITY», «OWN_STATE» «OWN_ZIPCD»

Compliance Assistance
Re: Registration of best management
practices
FDACS #«Owner_ID»

Dear Landowner:

You are receiving this letter because you own lands classified as agricultural within the Indian River Lagoon (IRL) Basin Management Action Plan (BMAP) area that includes the Central IRL, North IRL, and Banana River Lagoon BMAPs. The Florida Department of Environmental Protection (FDEP) developed these BMAPs to address the impacts to water quality related to excess nutrients from urban and agricultural sources located within the watershed.

Your agricultural operation can help address the water quality issues in the BMAPs by enrolling in and implementing agricultural best management practices (BMPs). State law (Section 403.067(7), F.S.) requires agricultural producers and landowners within a BMAP area to either:

- Enroll in the best management practices (BMPs) program adopted by the Florida Department of Agriculture and Consumer Services (FDACS) and implement all applicable BMPs, or
- Monitor their water quality as prescribed by FDEP to demonstrate compliance with state water quality standards. The cost associated with monitoring can be significant and the producer will be responsible for any expenses associated with sampling and testing.

Agricultural best management practices (BMPs) are practical, cost-effective actions that agricultural landowners can take to conserve water and reduce the amount of nutrients (fertilizers and animal waste) and other pollutants entering water resources. BMPs are designed to balance water resource needs with agricultural production. Please recognize that the FDACS BMP program is different from the National Resource Conservation Service's programs and requires a separate enrollment. An FDACS representative will assist you in the identification of applicable BMPs for your property or operation and enrollment in the BMP Program.

Rule 5M-1.009(3), F.A.C. requires FDACS to notify FDEP of landowners and producers who are not enrolled in a FDACS BMP Program. Failure to take action to bring the property into compliance with Florida law may result in civil action with significant financial penalties assessed by FDEP. Enrollment in and implementation of the FDACS BMP Program provides a presumption of compliance with state water quality standards and release from the provisions of Section 376.307(5), F.S., (fines for damages) for pollutants addressed by the BMPs.

www.FDACS.gov

OFFICE OF AGRICULTURAL WATER POLICY



THE MAYO BUILDING
407 SOUTH CALHOUN STREET
TALLAHASSEE, FLORIDA 32399-0800

FLORIDA DEPARTMENT OF AGRICULTURE AND CONSUMER SERVICES
COMMISSIONER WILTON SIMPSON

FDACS has contracted with the firm, Carr, Riggs & Ingram, LLC (CRI) to assist you in bringing your property into compliance with state law. Please respond in writing by April 30, 2024 through one of the following means:

- Return the enclosed information sheet in the envelope provided with the appropriate information filled in, or,
- Complete the information sheet, scan it, and email it to CRI staff at TLH-FDACS@cricpa.com.

If you have any questions or concerns, please reach out to a CRI staff person at (850) 201-5844.

Sincerely,

West Gregory
Director, Office of Agricultural Water Policy
Florida Department of Agriculture and Consumer Services

www.FDACS.gov

Florida Department of Agriculture and Consumer Services

Mail Out Efforts

 OAWP IRL Mailout Initiative

Indian River Lagoon Mailout Status Dashboard
Office of Agricultural Water Policy

Select a County
None BREVARD INDIAN RIVER ST LUCIE VOLUSIA

Total Parcels:
2,198

Brevard, Indian River, St Lucie & Volusia Parcels

28 3633-01-1881-11

BREVARD

QUELESPE FAMILY TRUST

1899 NW MISSOURI NW RD

PALM BAY, FL 32907

28 3633-01-1881-32

BREVARD

MIXON, ALONZO B

1798 RANGOON ROAD NW

PALM BAY, FL 32907

28 3633-01-1879-15

BREVARD

MELLENDEZ CARLOS

1874 NW EUGENIA NW CT

PALM BAY, FL 32907

28 3633-01-1879-14

BREVARD

MELLENDEZ CARLOS

1874 NW EUGENIA NW CT

PALM BAY, FL 32907

28 3633-01-1879-13

BREVARD

CARIVER COMPANY LLC

10325 BELFRY CIR

ORLANDO, FL 32832

28 3633-01-1879-12

BREVARD

Parcels Remaining:
2,082
(5.28% Complete)

IRL Mailout

30 3706-00-1

BREVARD

ROLLING MEADOW RANCH INC

3060 AIRPORT WEST DRIVE

VERO BEACH, FL 32960

30 3706-00-1

BREVARD

ROLLING MEADOW RANCH INC

3060 AIRPORT WEST DRIVE

VERO BEACH, FL 32960

30 3708-HF-6

BREVARD

FILIBERTO FRANK

9232 FLAMMS PL

PALM BAY, FL 32909

30 3706-00-1

BREVARD

ROLLING MEADOW RANCH INC

3060 AIRPORT WEST DRIVE

VERO BEACH, FL 32960

28 3632-00-250

BREVARD

CRE-KL MALABAR OWNER LLC

105 NE 1ST ST

DELRAY BEACH, FL 33444

28 3632-00-251

BREVARD

CRE-KL MALABAR OWNER LLC

105 NE 1ST ST

DELRAY BEACH, FL 33444

28 3632-00-252

BREVARD

CRE-KL MALABAR OWNER LLC

105 NE 1ST ST

DELRAY BEACH, FL 33444

Parcel Number
21 3505-00-6

BMAP
North Indian River Lagoon

Parcel Bin
1 -<25

DOR UC

County Number

County Name
BREVARD

FDACS ID
994

FSAID Acreage
4.21761376

Parcel Acreage
10.36

Is the Parcel Irrigated?

Is there a water body on the Parcel?

Does the Parcel have a special land use?

Owner Name
THORNE, KARL L

Owner Address Line 1
1102 RIVERSIDE DR

Owner Address Line 2

Indian River Lagoon Mailout Mapping Application

Find address or place

Parcel Number

21 3521-00-257

BMAP

North Indian River Lagoon

Parcel Bin

1 -<25

DOR UC

061

County Number

County Name

BREVARD

FDACS ID

805

FSAID Acreage

21.561342

Parcel Acreage

23.663000

Is the Parcel Irrigated?

Is there a water body on the Parcel?

Zoom to

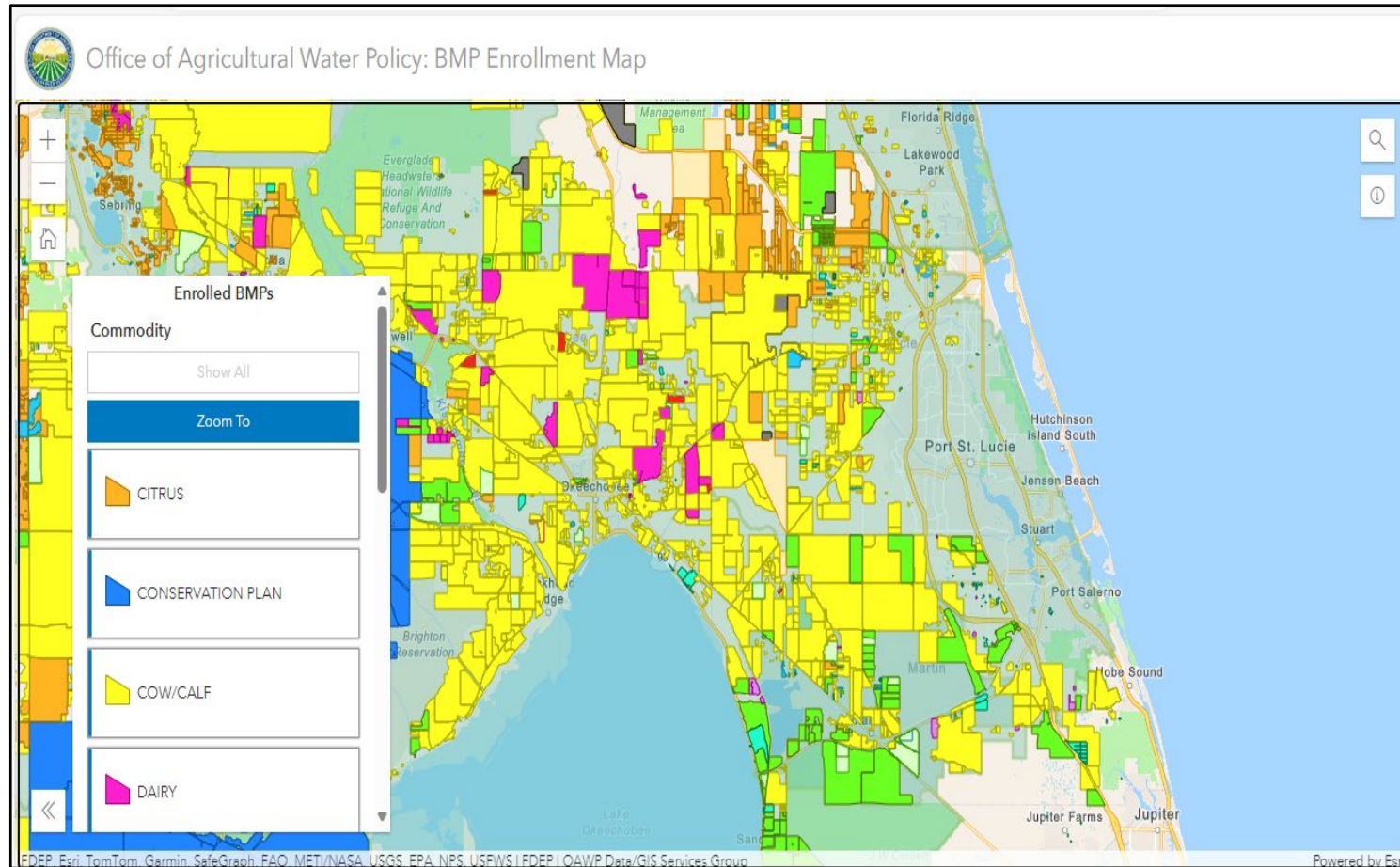
Florida Department of Agriculture and Consumer Services

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 (Jan 2022 – Dec 2023)
 - Central IRL 93%
 - North IRL 94%
 - 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



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

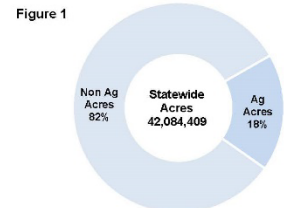


Figure 2

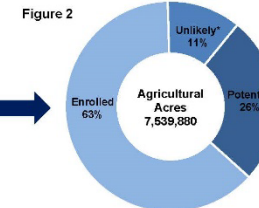


Figure 3
Potentially Enrollable Parcels & Agricultural Acres

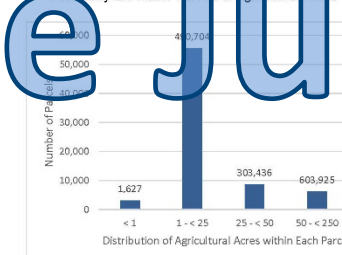


Table 2
Enrolled Agricultural Acres by Manual

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 St. Lucie River and Estuary BMAP

Non-Agricultural Acres	Agricultural Acres	Enrolled Agricultural Acres	Unenrolled - Unlikely Enrollable Acres *	Unenrolled - Potentially Enrollable Acres
251,308	288,434	215,849	32,186	40,340

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

Figure 1

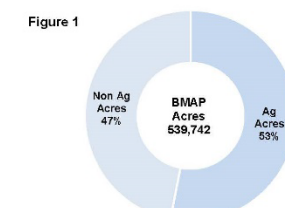


Figure 2

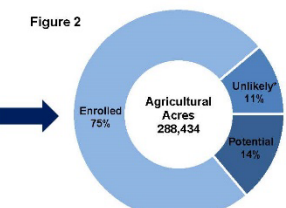


Figure 3
Potentially Enrollable Parcels & Agricultural Acres

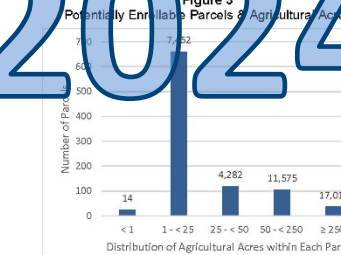


Table 2
Enrolled Agricultural Acres by Manual

BMP Manual	Acres
Citrus	6,321
Cow/Calf	121,142
Dairy	617
Equine	657
Fruit & Nut	224
LOPP	3
Multiple Commodities	70,927
Nursery	935
Poultry	42
Row/Field Crop	14,041
Sod	930
Wildlife	10
Total	215,849

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>

Yesenia Escribano, Environmental Administrator
Yesenia.Escribano@FDACS.gov – (850) 617-1732



Florida Department of Agriculture and Consumer Services



THANK YOU

Diana Turner

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection

Contact Information:

Phone: (850) 245-8825

Email: Diana.M.Turner@FloridaDEP.gov