

St. Lucie River and Estuary Basin Management Action Plan (BMAP) Annual Meeting

Via Webinar April 3, 2024 1:00 PM

Webinar Registration Link: <u>https://attendee.gotowebinar.com/register/3155166701010665047</u>

Agenda

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



WEBINAR HOUSEKEEPING

Attendee Participation

Open your control panel.

Join audio:

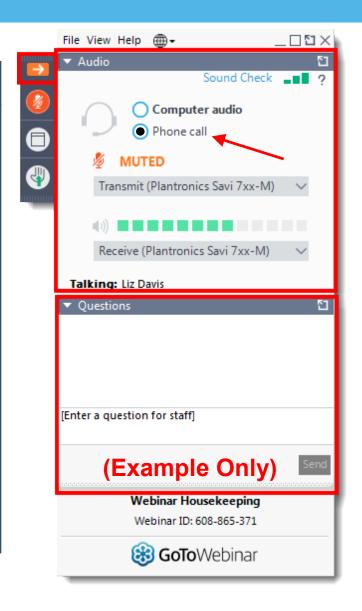
- Choose Computer Audio <u>or</u>
- Choose Phone Call and dial using the information provided with your registration.

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.





ST. LUCIE RIVER AND ESTUARY BASIN MANAGEMENT ACTION PLAN (BMAP) ANNUAL MEETING

Diana Turner

Division of Environmental Assessment and Restoration Florida Department of Environmental Protection

GoToWebinar | April 3, 2024



ST. LUCIE RIVER AND ESTUARY ANNUAL MEETING

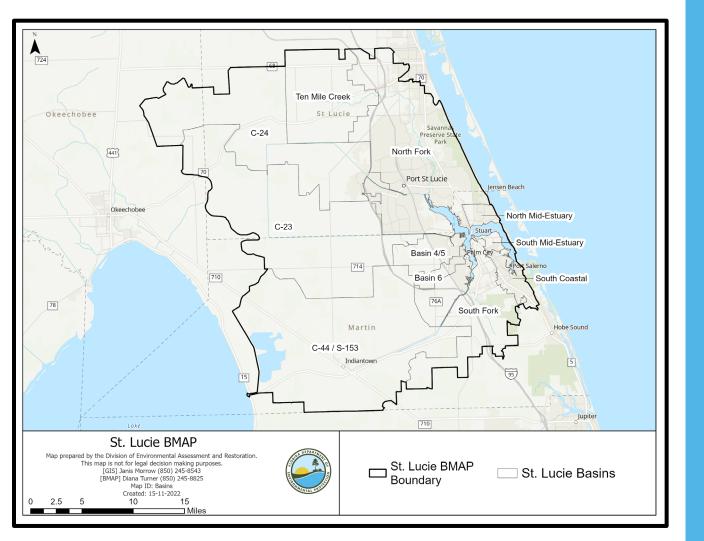


Agenda:

- Background.
- South Florida Water Management District (SFWMD) Updates.
- Statewide Annual Report (STAR).
- Annual Progress.
- Upcoming Basin Management Action Plan (BMAP) Update.
- Florida Department of Agriculture and Consumer Services (FDACS) Updates.



BACKGROUND



St. Lucie BMAP

BMAP established in 2013. Boundary was updated in 2020.



STAKEHOLDERS ST. LUCIE BMAP

Regional/State Agencies:

- FDACS.
- Florida Department of Transportation. (FDOT) District 1.
- FDOT District 4.
- Florida Turnpike Enterprise.
- SFWMD.

Local Governments:

- Martin County.
- Okeechobee County.
- St. Lucie County.
- City of Fort Pierce.
- City of Port St. Lucie.
- City of Stuart.
- Town of Sewall's Point.

Special Districts:

- Hobe St. Lucie Conservancy District.
- North St. Lucie River Water Control District.
- Pal Mar Water Control District.
- Troup-Indiantown Water Control District.

Community Development Districts:

- Copper Creek.
- Creekside.
- Portofino Isles.
- River Place.
- St. Lucie West Services District.
- Tesoro.
- Tradition.
- Veranda.
- Verano.
- Villa Vizcaya.



STORYMAP ST. LUCIE RIVER AND ESTUARY BMAP

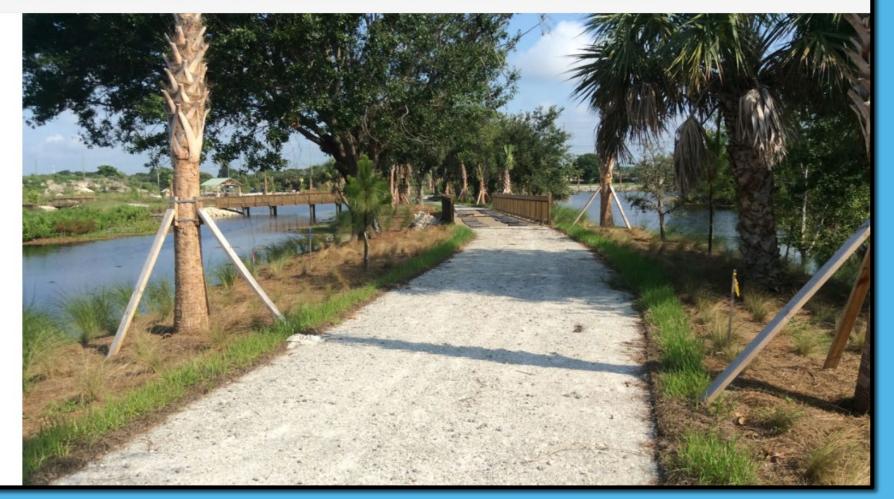
Introduction Overview Location Water Quality Projects Progress 2023 TN Trend Results 2023 TP Trend Results Contacts & More Information

Introduction

Welcome to the St. Lucie 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 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 adopted by DEP Secretarial Order and are legally enforceable.

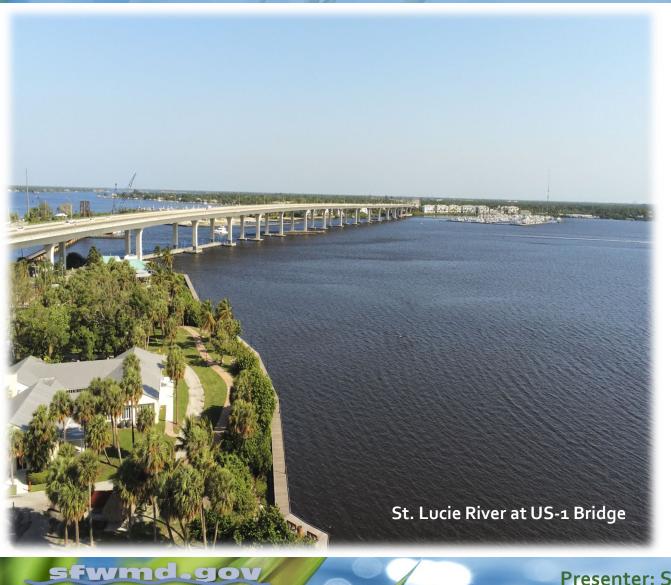


SFWMD Update St. Lucie River Watershed Construction Project

Stacey Ollis, PMP Principal State Policy Analyst Everglades and Estuaries Protection Bureau St. Lucie River and Estuary BMAP Annual Meeting April 3, 2024

sfwmd.gov

Agenda



- Northern Everglades Program Overview
- 2023 St. Lucie River Watershed Construction Project Review
 - Project Spotlights
 - Water Storage Benefits
- Watershed Protection Plan Reporting

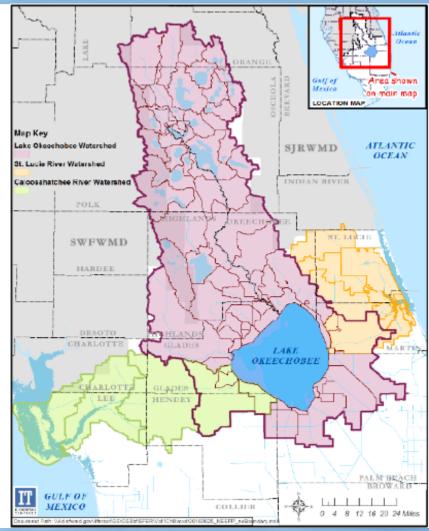
Northern Everglades and Estuaries Protection Program (NEEPP)

- 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

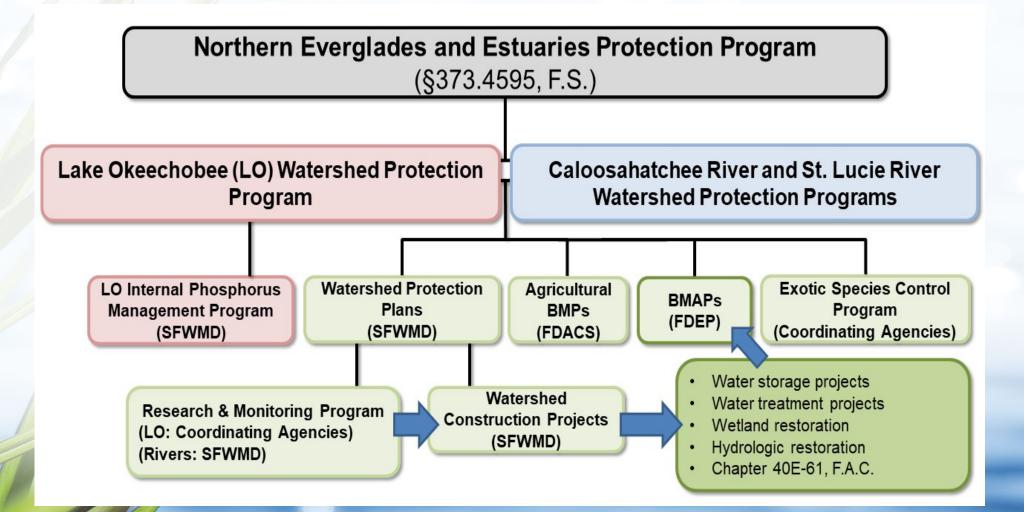
Goal: Manage Water Quantity

sfwmd.gov

 Increase water storage north of Lake Okeechobee and in Caloosahatchee and St. Lucie River Watersheds



NEEPP: Coordinating Agencies Roles



Presenter: Stacey Ollis

sfwmd.gov

St. Lucie River Watershed Construction Project Review

- In 2020, SFWMD initiated annual St. Lucie River Watershed Construction Project (SLRWCP) 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.

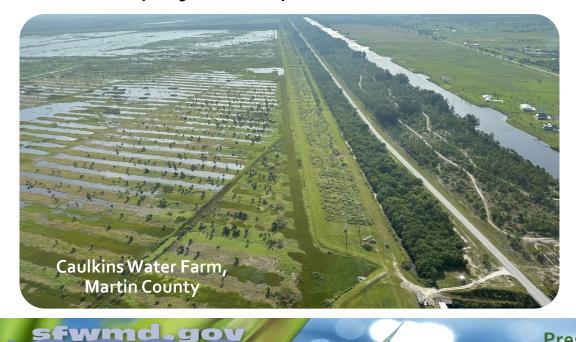
Focus: 2023 SLRWCP Review

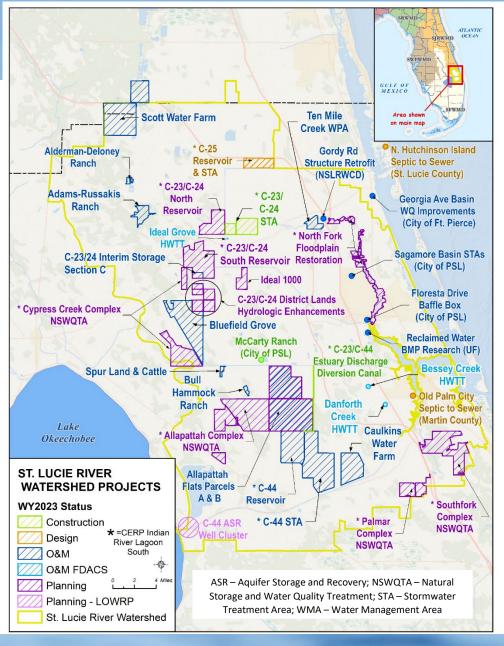
- Key accomplishments during Fiscal Year (FY) 2023 (Oct. 1, 2022–Sept. 30, 2023)
- Final 2024 SFER Volume I, Chapter 8C (March 1, 2024) at SFWMD.gov/SFER

sfwmd.gov

SFWMD Projects

- FY2023 SLRWCP Status:
 - 10 projects planning/design
 - 2 projects construction
 - 11 projects operations





Project Spotlights

- CERP Indian River Lagoon South
- C-23/24 Interim Storage Section C and Other Parcels
- Bluefield Grove Water Farm
- Scott Water Farm

sfwmd.gov

C-44 Reservoir/



C-44 Reservoir

and the state

Cell 3

Indian River Lagoon - South



Estuary Discharge Diversion Canal (C-23 to C-44 Interconnect)

 Cell 1
 Cell 2

 Stymplegov
 Presenter: Stacey Ollis

Cell 4

SOUTHERN FLORIDA

C-23/24 District Lands: Section C Interim Storage and Other Parcels

ATLANTIC ULF O IEXICO Area shown on main map Section (Water Far C23 PC51W 23 PC49 Legend Culverts C-23/24 District Lands Hydrologic Enhancement Project Footprint Existing and Future Adjacent Projects Footprint (For Reference Only)

Section C Interim Storage



Bluefield Grove & Scott Water Farms



Water Storage Benefits

Key DWM program benefits:

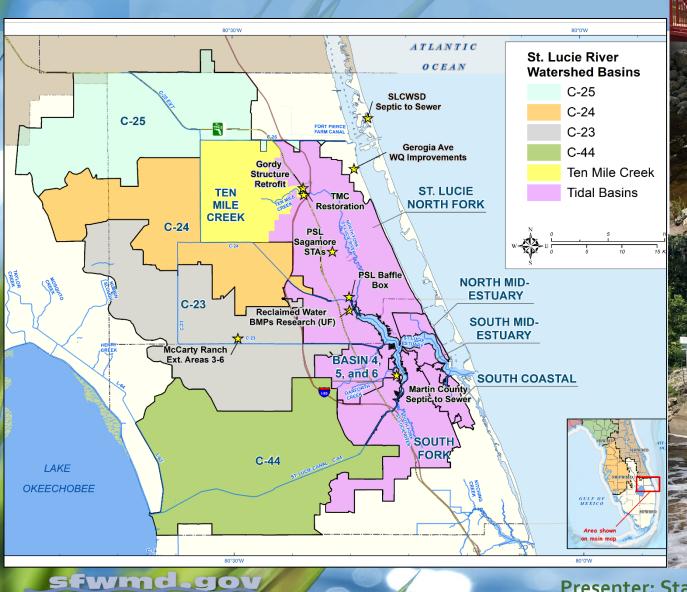
- Reduces runoff/discharge to and stores/treats water in regional system
- Promotes hydrologic enhancement, groundwater recharge, improves habitat
- Avoids high cost of land purchase and keeps private lands on local tax rolls
- Storage and/or treatment provided typically exceeds permit requirements
- In WY2023, 11 SFWMD projects provided ~128,371 ac-ft of storage (109,840 ac-ft, 8 DWM; 18,531 ac-ft, 3 regional)
- Future projects are planned to add storage capacity of more than 122,000 ac-ft over the next five years

sfwmd.gov

Increasing Project Storage Capacity in the St. Lucie River Watershed



Local Projects in the St. Lucie



City of Fort Pierce – Georgia Ave. Basin Water Quality Improvements NSLWCD Gordy Structures Retrofit

Watershed Protection Plan Reporting

For more information, visit: <u>SFWMD.gov/WPPs</u>

and SFWMD.gov/SFER (Final 2024 SFER – Volume I, Chapter 8C)



sfwmd.gov



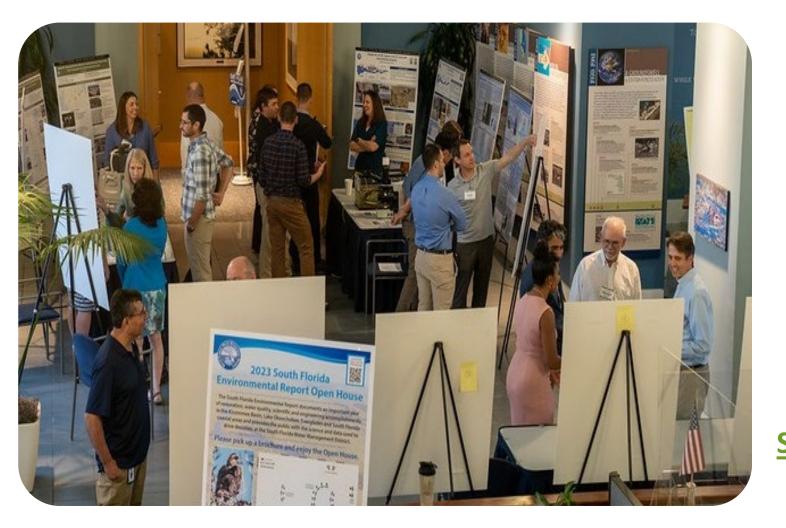
2024 SOUTH FLORIDA ENVIRONMENTAL REPORT HIGHLIGHTS



The South Florida Environmental Report (SFER) documents an important year of restoration, scientific and engineering accomplishments in the Rissimmee Basin, Lake Okeechobee, Everglades and South Florida coastal areas. The report also provides extensive pear environmental projects. The report covers environmental information for Water Year 2023 (WY2023; May 1, 2022-April 30, 2023) and project budgetary and construction information for the South Florida Water Management District (SFWMD or District) for Fiscal Year 2023 (FY2023; October 1, 2022 – September 30, 2023). This year's SFER Highlights also cover the many achievements and progress made over the past for south survivors water water water interpretent and progress made over the past for south survivors.

five years in accelerating key water quality improvements and Everglades restoration projects, in line with the Descutive Order 19-12 (Achieving More Now for Florida's Environment, January 2019) and Executive Order 23-66 (Achieving Farn Move Now for Florida's Environment, January 2023). The full 2,991-page report is available at SFWMD.gov/SFER.

Mark Your Calendars



sfwmd.gov

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**

Contact Information

Stacey Ollis, PMP

Principal State Policy Analyst Everglades & Estuaries Protection Bureau South Florida Water Management District <u>sollis@sfwmd.gov</u>; 561-682-2039





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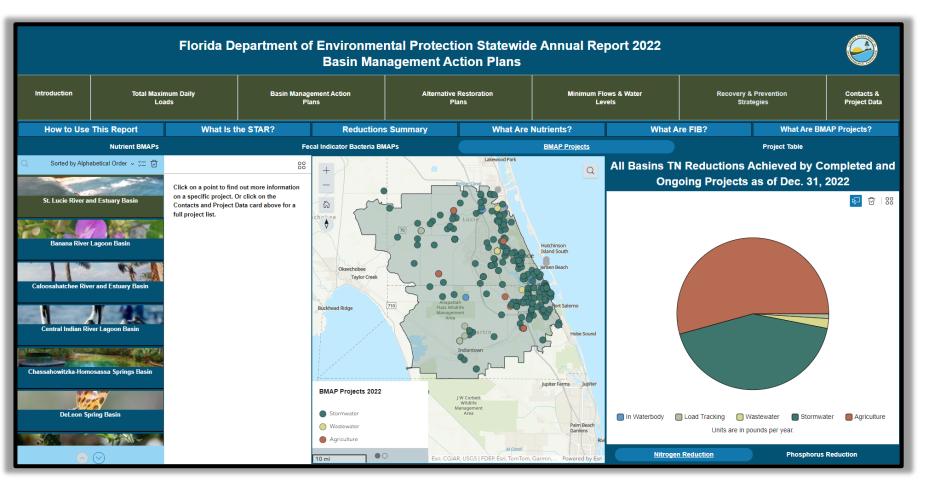


STAR STATEWIDE ANNUAL REPORT

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



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.

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.

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| | Lead Entit | Please select | Ť | | DMAP ID: | ione selected • | | | | | | | |
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| Sea Proje | earch Results Move to Next Review Stay ect Workbooks List | 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 x | Estim Compl Dat |
| Ser Proje | earch Results ^e Move to Next Review Staj ect Workbooks List User Action Icons | Review Stage | STAR Year | Saved But Not Submitted ~ ~ | BMAP ID | Project ID • • | Lead Entity ~ X | Project Number | Project Name X Cutter Slough | Project Type Category | Project Type | Project Status x | Estima Comple Dat |

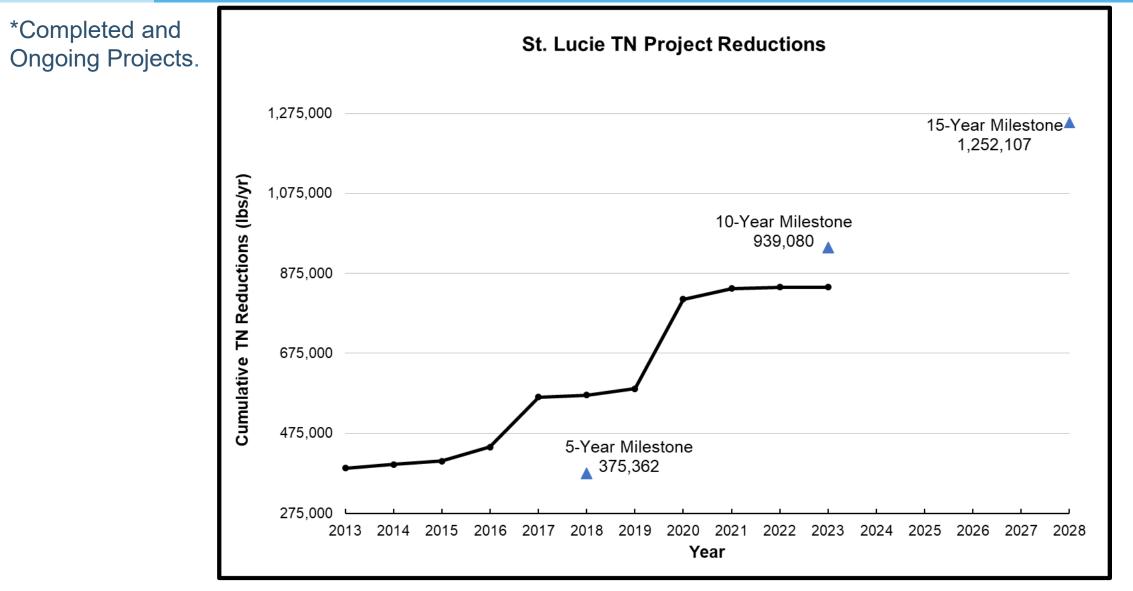


STAR*PRELIMINARY 2023 STATUS OF PROJECTS

| Entity | Completed | Ongoing | Planned | Underway | Grand Total |
|-------------------------------------|-----------|---------|---------|----------|-------------|
| City of Fort Pierce | 9 | 4 | 0 | 0 | 13 |
| City of Port St. Lucie | 26 | 4 | 0 | 4 | 34 |
| City of Stuart | 21 | 3 | 0 | 1 | 25 |
| FDACS/Agriculture | 12 | 8 | 0 | 0 | 20 |
| FDOT District 4 | 60 | 2 | 0 | 0 | 62 |
| Fort Pierce Utilities Authority | 0 | 0 | 1 | 5 | 6 |
| Hobe St. Lucie Conservancy District | 1 | 0 | 1 | 0 | 2 |
| Martin County | 40 | 3 | 1 | 3 | 47 |
| North St. Lucie River WCD | 11 | 0 | 0 | 0 | 11 |
| SFWMD - Coordinating Agency | 8 | 0 | 1 | 1 | 10 |
| St. Lucie County | 9 | 9 | 4 | 4 | 26 |
| St. Lucie West Services District | 2 | 3 | 0 | 0 | 5 |
| Town of Sewall's Point | 30 | 2 | 2 | 3 | 37 |
| Troup-Indiantown WCD | 2 | 0 | 0 | 2 | 4 |
| Turnpike Enterprise | 3 | 2 | 0 | 0 | 5 |
| Tradition CDD | 0 | 0 | 1 | 2 | 3 |
| Grand Total | 234 | 40 | 11 | 25 | 310 |

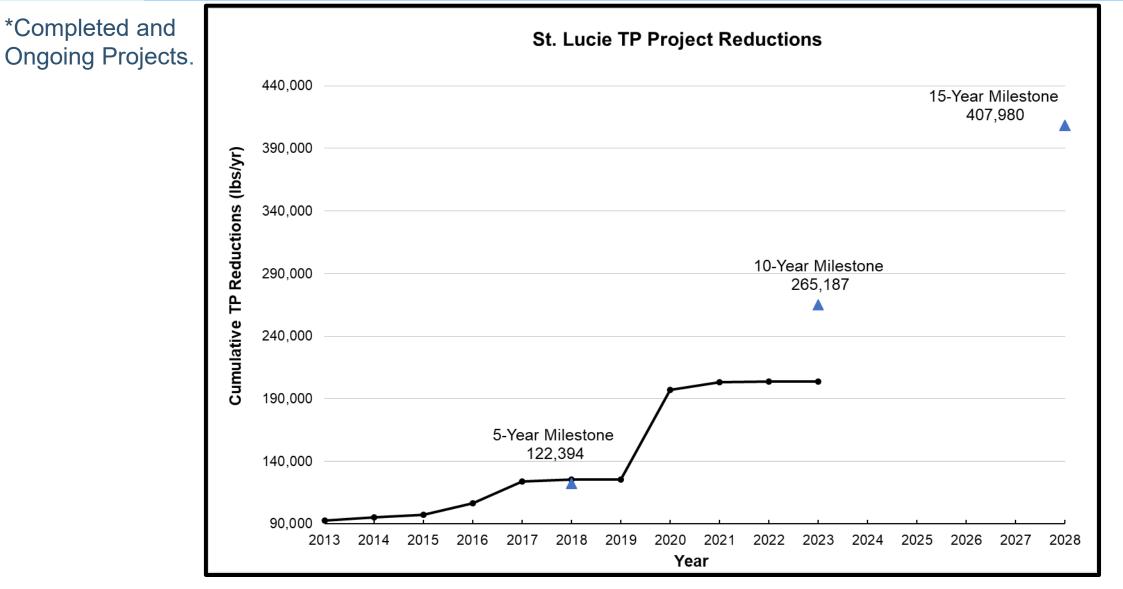


STAR*PRELIMINARY 2023 STATUS OF PROJECTS



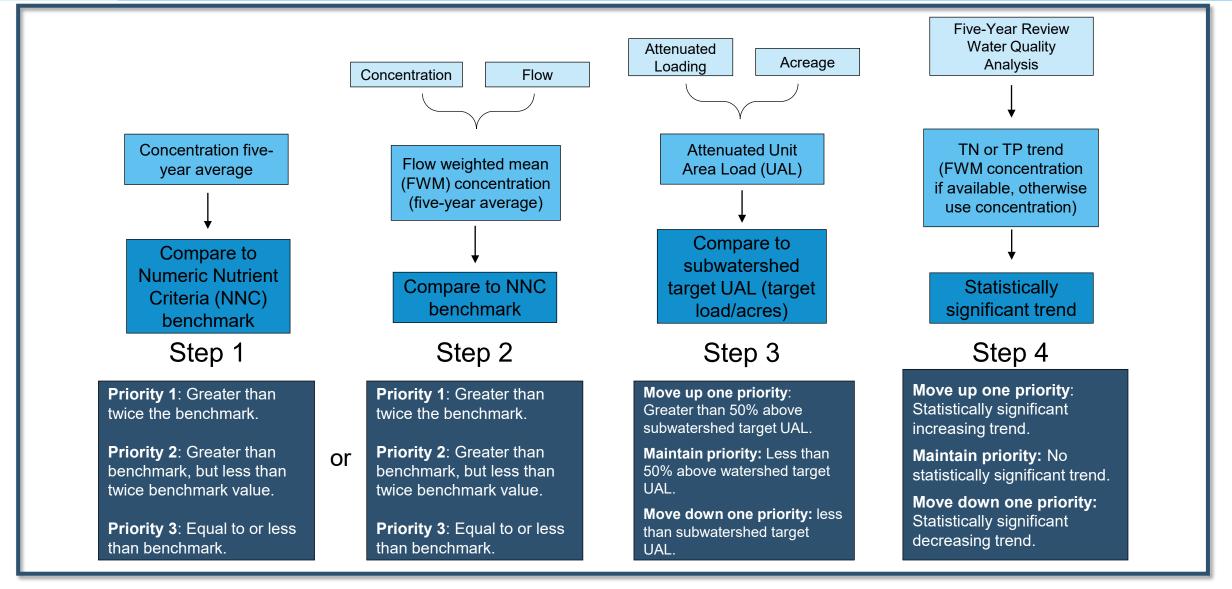


STAR *PRELIMINARY 2023 STATUS OF PROJECTS





TARGETED RESTORATION AREA (TRA) EVALUATION UPDATE APPROACH





TRA EVALUATION UPDATE RESULTS

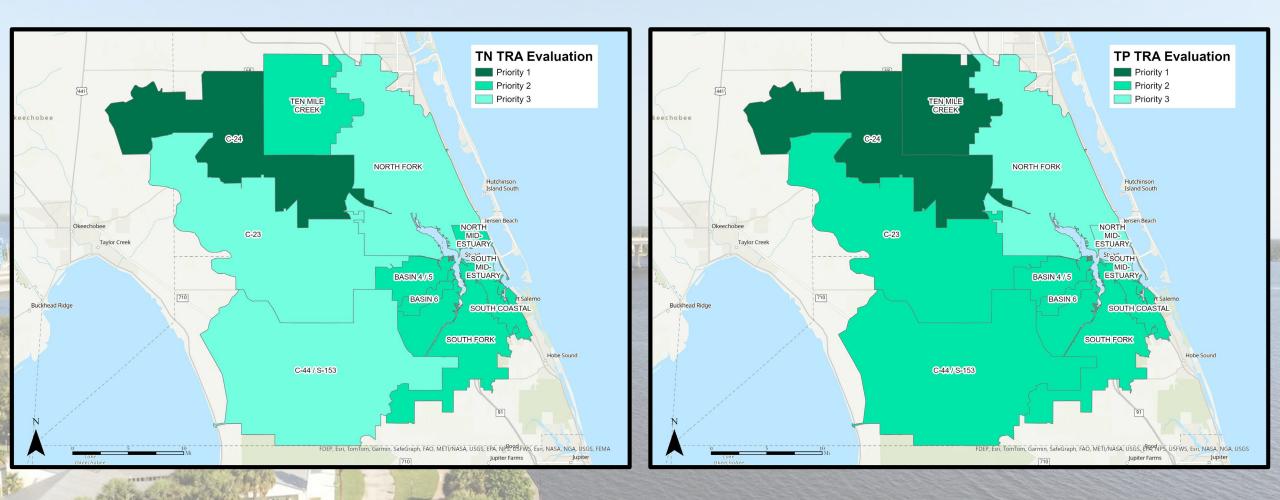
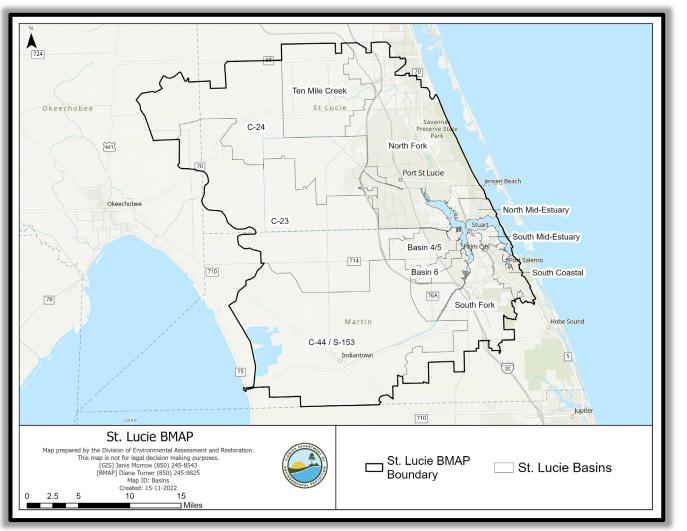


Photo Credit: SFWMD



UPCOMING BMAP UPDATE COMPONENTS



- Evaluation of wastewater effluent limits.
- Onsite Sewage Treatment and Disposal System (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 2023 Five-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 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:

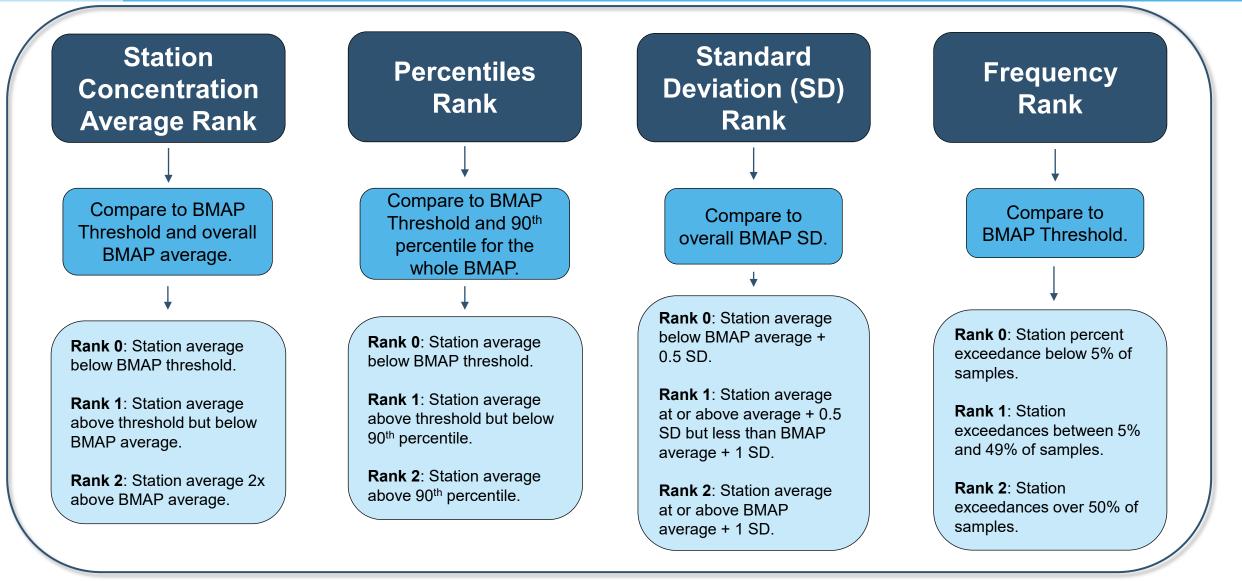
- TN or TP concentration average.
- TN or TP 90th percentile.
- TN or TP Standard Deviation (SD).
- TN or TP Percent Frequency of Samples over BMAP Threshold.

BMAP Threshold:

- St. Lucie River and Estuary:
 - TN TMDL 0.72 mg/L
 - TP TMDL 0.081 mg/L

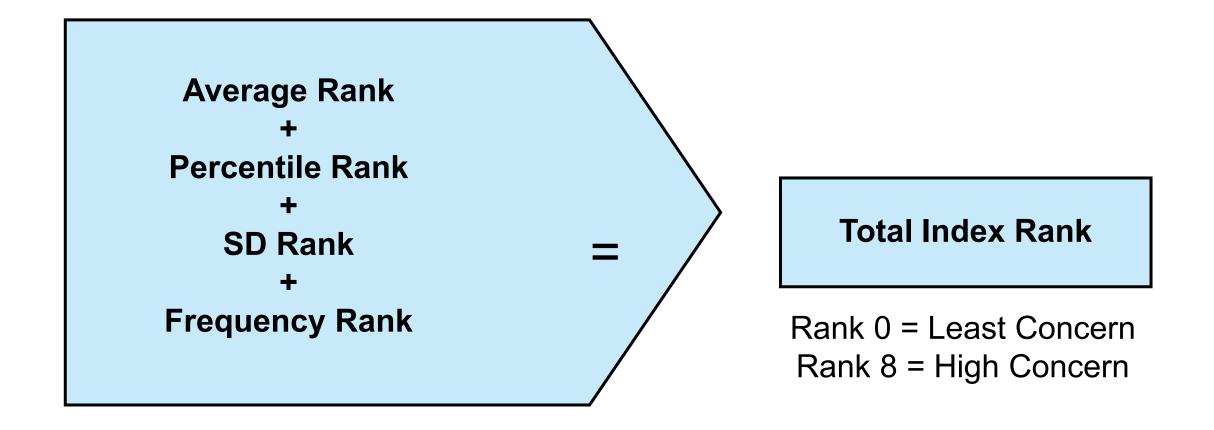


HOT SPOT ANALYSIS DEVELOPMENT INDEX RANKING APPROACH



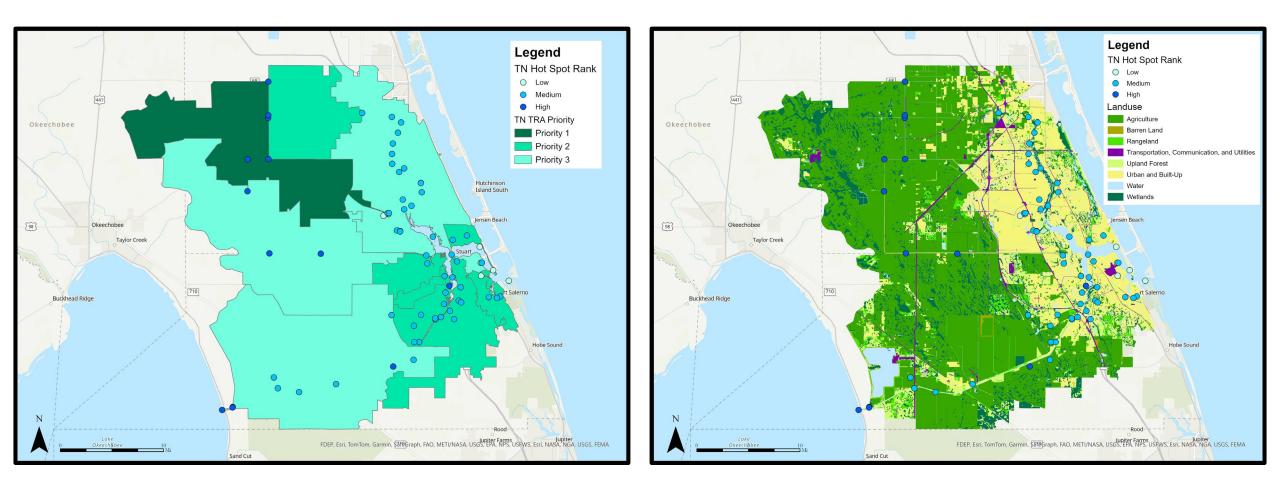


HOT SPOT ANALYSIS DEVELOPMENT FINAL OVERALL RANK



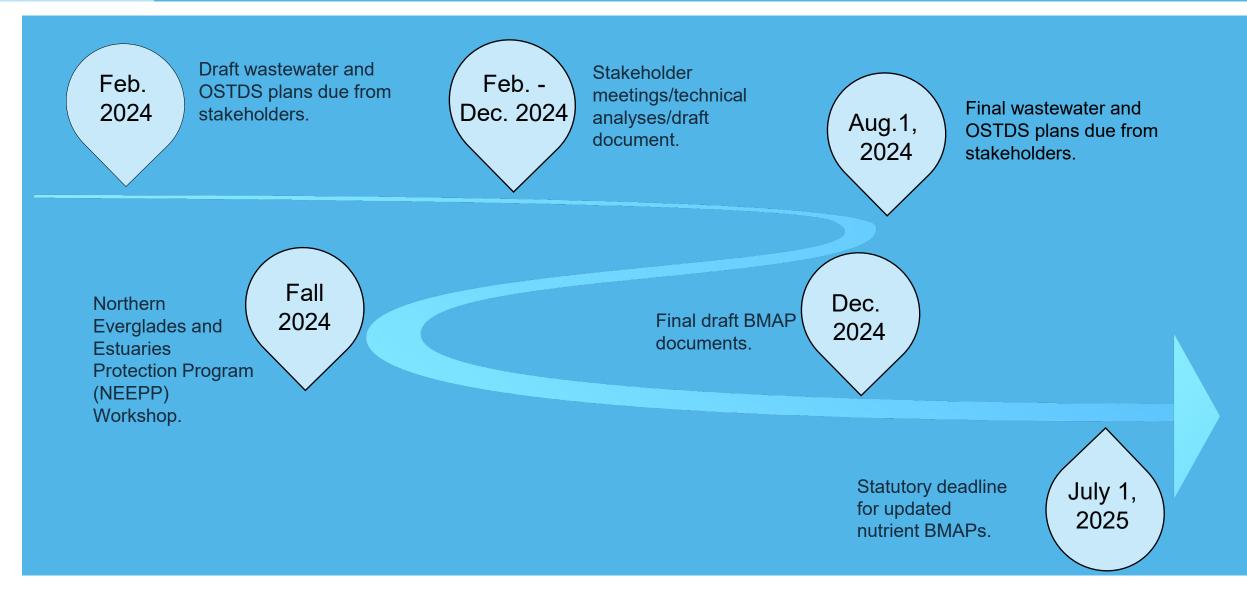


HOT SPOT ANALYSIS RESULTS EXAMPLE ST. LUCIE TN RESULTS





UPCOMING SCHEDULE



St. Lucie BMAP Annual Meeting

April 3, 2024

Jennifer Thera



Florida Department of Agriculture and Consumer Services

Office of Agricultural Water Policy

Overview

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



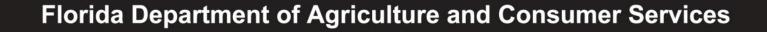
Office of Agricultural Water Policy (OAWP)

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- **Steve Smith;** Chief of Field Services <u>Steve.Smith@FDACS.gov</u>



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- **Rebecca Elliott;** Environmental Consultant-PPC <u>Rebecca.Elliott@fdacs.gov</u>
- Raulie Raulerson; Environmental Administrator-Field Services Raulie.Raulerson@fdacs.gov
- Vacant; Environmental Manager-Field Services
- Sheila Kitaif; Biological Administrator-Field Services <u>Sheila.Kitaif@fdacs.gov</u>



OAWP Responsibilities

share programs

Scientific and technical

research



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



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FLORIDA

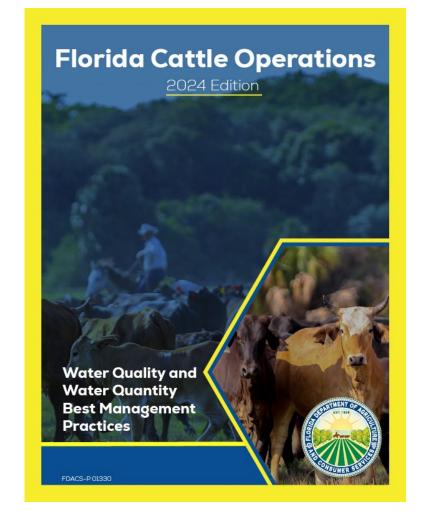


Update BMP Manuals: Status

Best Management Practices (BMPs)

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

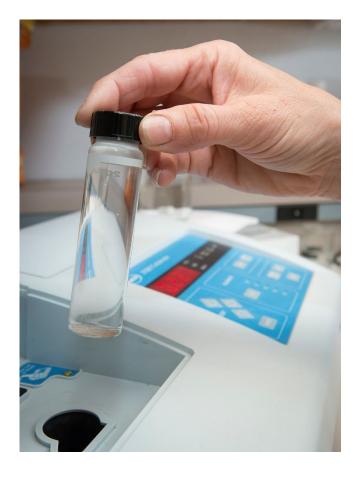
| Nutrient Management | | | | | | |
|---------------------|--|--|--------|---------|-----|--|
| | Do you apply nutrients or plan to apply nutrients in any form on the operation associated with this NOI? | | | | | |
| | | | In Use | Planned | N/A | |
| 1.1 | Right Sou | rce | | | | |
| ۲ | 1 | If using 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. | | | | |
| ۲ | 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. | | | | |
| ۲ | 3 | If using <u>Class</u> A or Class B biosolids, account for the nutrient concentrations and follow the requirements of the FDEP permit. | | | | |
| 1.2 | Right Rate |) | | | | |
| Che | Right Rate | | | | | |
| IUME | 3 | If using <u>Class</u> A or Class B biosolids, account for the nutrient concentrations and follow the requirements of the FDEP permit. | | | | |
| 7.5 | | | | | | |



Producer Options in BMAP Areas

 Sign a Notice of Intent (NOI) and properly implement applicable BMPs for presumption of compliance, <u>OR</u>

2. Follow an FDEP or WMDprescribed water quality monitoring plan at a producer's expense



Enrollments within the St. Lucie BMAP

| | Basin/Subbasin | Total Ag Acres | Enrolled Ag Acres | % Enrolled | Irrigated Acres | Enrolled Irrigated Acres | % Enrolled |
|---------------|-------------------|-------------------|----------------------|---------------|--------------------|--------------------------------|---------------|
| | Basin Total | 288,434 | 215,849 | 75% | 60,071 | 52,637 | 88% |
| | Basin 4/5 | 2,878 | 1,594 | 55% | 217 | 157 | 72% |
| | Basin 6 | 429 | 152 | 36% | 173 | 55 | 32% |
| | C-23 | 88,934 | 69,358 | 78% | 8,267 | 7,471 | 90% |
| | C-24 | 63,391 | 49,032 | 77% | 13,433 | 12,385 | 92% |
| | C-44/S-153 | 74,207 | 60,237 | 81% | 27,301 | 25,055 | 92% |
| | North Fork | 6,977 | 1,468 | 21% | 983 | 52 | 5% |
| | North Mid-Estuary | 2 | 0 | 0% | 2 | 0 | 0% |
| | South Coastal | 28 | 0 | 0% | 0 | 0 | 0% |
| ORIDA | South Fork | 18,297 | 13,732 | 75% | 4,620 | 3,812 | 83% |
| ANA B FLORIDA | Ten Mile Creek | 33,298 | 20,344 | 61% | 5,072 | 3,674 | 72% |

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

SUMER

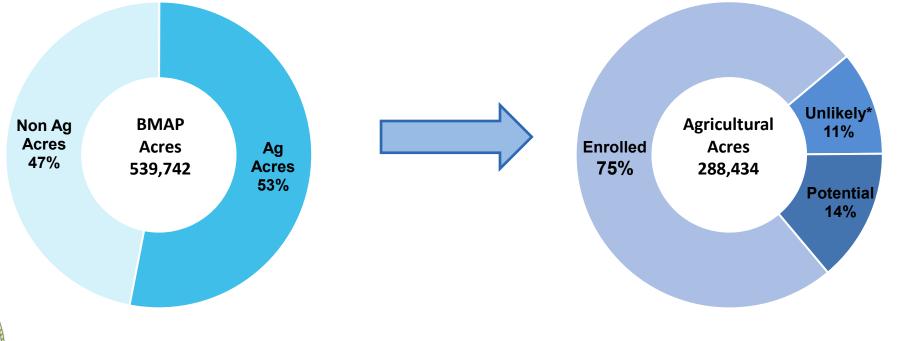
Agricultural Acres Enrolled within St. Lucie BMAP

| 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 |



Agricultural Lands within St. Lucie 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 |

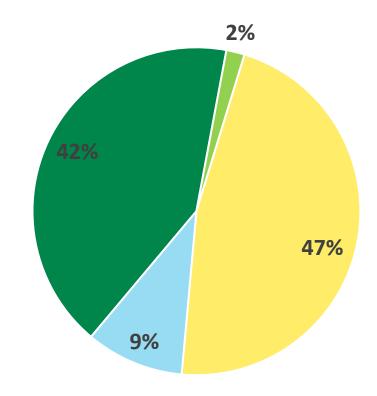




*This value includes acreages within state-owned properties and/or surface water project areas

Unenrolled - Unlikely Enrollable Acres within St. Lucie BMAP

| Category | Acres |
|---|--------|
| State Lands, Surface Water Projects | 13,461 |
| | |
| Timberland and Aquaculture** | 582 |
| Not Agriculture [e.g., DOR Use Code 70-99 (industrial or institutional use, acreage not zoned agricultural)] | 15,030 |
| Not Enrollable [e.g., missing parcel information, no overlap, conflicting parcel info, slivers] | 3,113 |

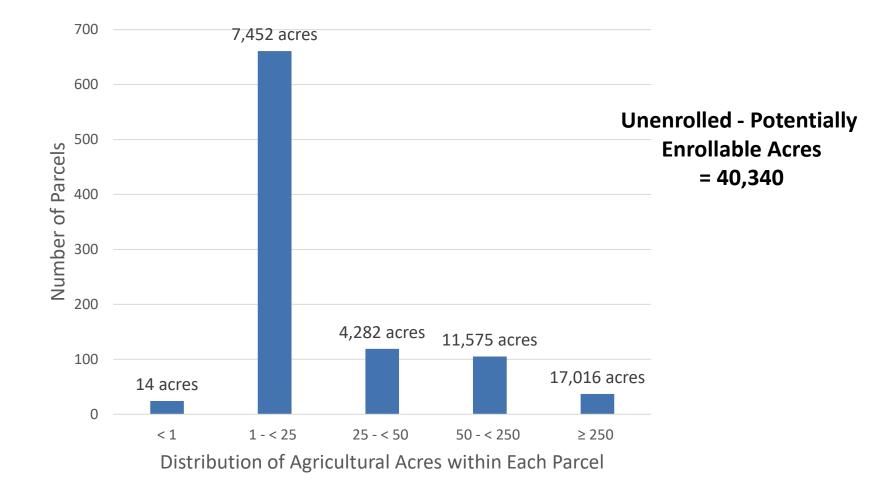




Unenrolled - Unlikely Enrollable Acres = 32,186

** 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.

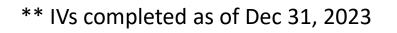
Potentially Enrollable Parcels & Agricultural Acres within St. Lucie BMAP





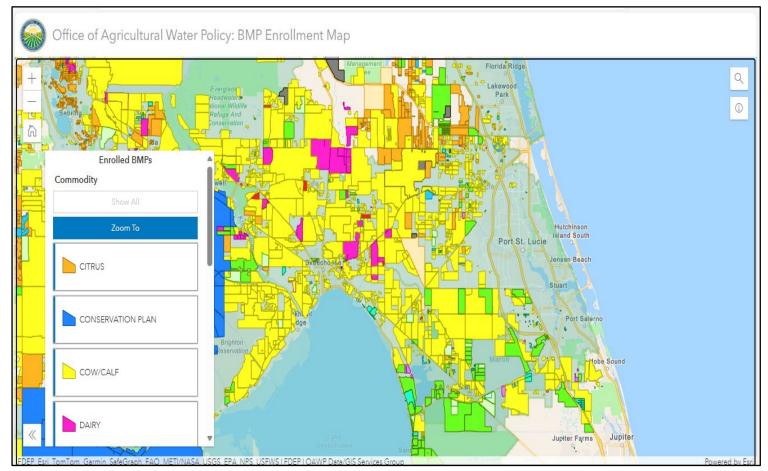
BMP Implementation Verification (IV)

- Process to verify the status of implementation of BMPs
- Clean Waterways Act SB 712 (July 2020)
 - Requires IV site visits every 2 years
 - 90% 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





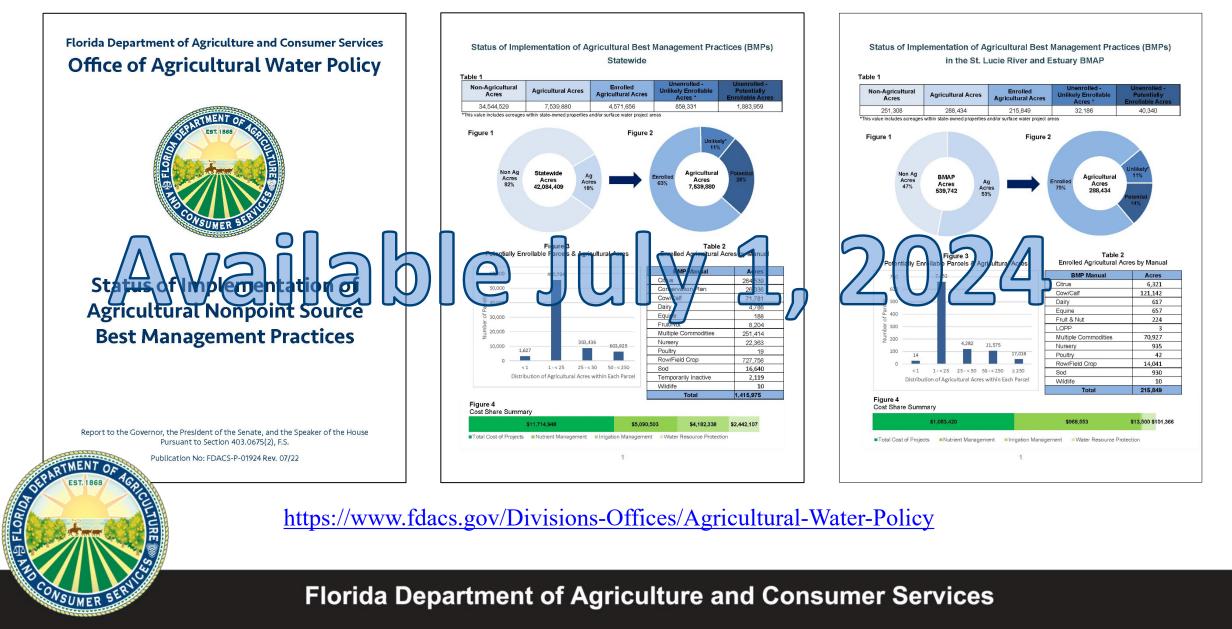
BMP Enrollment Viewer Web App





Office of Agricultural Water Policy: BMP Enrollment Map (fdacs.gov)

2024 FDACS Legislative Report



Thank You!

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

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







Photo Credit: SFWMD

THANK YOU

Diana Turner Division of Environmental Assessment and Restoration Florida Department of Environmental Protection

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St. Lucie River and Estuary Basin Management Action Plan (BMAP) Webinar Summary

Wednesday, April 3, 2024 1:00 pm - 1:54 pm

Participants

Silvia Alderman, Akerman Cassondra Armstrong, DEP Jana Ash, RES Christian Avila, SFWMD Taufiqul Aziz, DEP Bill Baker, MacVicar Consulting Bethany Barnes, Tampa Bay Times Venetia Barnes, Fort Pierce Janelle Barriero, Florida Senate Mark Barton, SFWMD Sandra Bogan, St. Lucie County Beth Brady, Save the Manatee Patricia Burke, SFWMD Ben Butler, Citizen Carolin Ciarlariello, DEP Kelly Cox, Audubon Kevin Coyne, AMP Franscesca DiJuio, Everglades Law Rebecca Dougherty, SFWMD Terence Duffy, Citizen Amy Eason, Martin County Bill Eggers, Evans Katherine English, Pavese Law Amanda Exposito-Ferree, Atkins Realis Elizabeth Fata Carpenter, Everglades Law Jay Ferrin, Florida Senate Jessica Fetgatter, DEP Jake Fojtik, Florida Farm Bureau Marcy Frick, Tetra Tech Brandon Friedman, St. Lucie County Joe Gilio, Citizen Diane Goldberg, Citizen Jim Gorton, Martin County Rebecca Groover, FOWA Raichel Gulde, RES Chris Guth, Federico & Associates Sam Hankinson, DEP Maddy Hart, FDACS Kenny Hayman, DEP Margarita Hernandez, DEP Moira Homann, DEP

Brian Ingram, St. Lucie County Nenad Iricanin, SFWMD Danielle Ivey, Audubon Megan Jacoby, SFWMD Paul Julian, Everglades Foundation Chandler Keenan, DEP Chris Keller, Wetlands Solutions Elizabeth Kelly, Martin County Evan Key, DEP Lisa Kreiger, Lee County Lisa Krimsky, UF Tricia Kyzar, UF Kathy LaMartina, SFWMD Jacob Landfield, SFWMD Juli LaRock, SFWMD Ivette Leiva, FDOT Nichola Linehan, St. Lucie County Andrew Luering, DEP Jonathan Madden, SFWMD Valentina Miele, Florida Oceanographic Society Joshua Miller, SLWSD Jessica Mostyn, DEP Caitlin Newcamp, Citizen Stacey Ollis, SFWMD Steffany Olson, SFWMD Sara Ouly, SFWMD Melanie Parker, SFWMD Mark Perry, Florida Oceanographic Society Libby Pigman, SFWMD Nicolas Pisarello, ATM Robert Potts, ATM Jeff Prater, USACE Allyson Reinert, DEP Jennifer Reynolds, SFWMD HM Ridgely, Evans Properties Rhonda Roff, Citizen Ellen Rogers, Florida Senate Beth Ross, Gunster Elianni Ruiz de la Cruz, Higgins Engineering Zack Sampson, Tampa Bay Times Marlene Severino, DEP

Jordan Skaggs, DEP Gil Smart, Friends of the Everglades The Florida Channel Jennifer Thera, FDACS Raychel Thomas, Pavese Law Frank Tidikis, Citizen Diana Turner, DEP Rachel Vitek, RES Shreya Vuttaluru, Tampa Bay Times Jessica Wakefield, SFWMD Youchao Wang, SFWMD Benita Whalen, Dispersed H2O

The full webinar recording and supporting materials are posted to the Florida Department of Environmental Protection (DEP) file transfer protocol (FTP) site at https://publicfiles.dep.state.fl.us/DEAR/BMAP/StLucie/Meetings/2024/Annual%20Meeting/.

Questions and Answers

Question on the DEP presentation: When will you be updating the stakeholder list to include new community development districts (CDDs) and other stakeholders? **Answer from Diana Turner, DEP:** We will do that as part of the BMAP update.

Question: Can you provide an update of the changes to Section 403.086? **Answer:** House Bill 1557/Senate Bill 1386 has not been signed yet.

Question: Please define surface water discharge and clarify what the definition means within 403 when it says "thereto."

Answer: This question is best directed to the Division of Water Resource Management within DEP.

Question: Please provide insight into the advanced wastewater treatment (AWT) requirements relating to reuse systems. After meeting with DEP Division of Water Resource Management/Wastewater Management Program last week at Focus on Change, it was stated that Reuse Discharge for Irrigation Systems Standards are being proposed by legislature to be more stringent (i.e. meet AWT 5,5,3,1). Please provide insight on this matter and a timeline if it is so.

Answer: This question is best directed to the Division of Water Resource Management within DEP. House Bill 1557/Senate Bill 1386 has not been signed yet.

Question: Nutrient contributions for Lake Okeechobee discharges should be included in the required reductions in future iterations of the BMAP/total maximum daily load (TMDL). By our calculations, which are based upon the biweekly sampling at the S-80 structure, 52 billion gallons of water from Lake Okeechobee has been discharged into the estuary over the past 42 days, resulting in a contribution of more than 600 tons of nitrogen into the system. The concentration for total nitrogen (TN) increased from 0.9 to 2.76 milligrams per liter (mg/L), and the concentration for total phosphorus (TP) increased from 0.09 to 0.34 mg/L with the releases from Lake Okeechobee, with little to no local basin runoff contribution during this time. The river and estuary will never reach restoration goals with these egregious unchecked contributions from the Lake. When we bring these concerns up to the Army Corps of Engineers, they indicate that they are charged with flood control, not water quality and that we should address water quality concerns with the appropriate agency, which is DEP. The TMDL and resultant BMAP must identify and hold accountable all contributions for releases from Lake Okeechobee? **Answer:** The TMDL and BMAP identify Lake Okeechobee contributions as part of the total loading to the estuary. The BMAP is focused on reductions to the St. Lucie River and Estuary watershed, where the

local stakeholders can implement projects to reduce nutrient loading. Nutrient loading contributions to Lake Okeechobee are addressed through the Lake Okeechobee BMAP. Reductions made by the local stakeholders and state agencies in the Lake Okeechobee Watershed will help to benefit the estuaries.

Question: As shown in the beginning slides, please consider adding all additional CDDs in the next update. Specifically, please include the entire CDD boundaries in the determination of their starting loads and their load reductions. Many of these CDDs are under development of regional impacts (DRI) and development orders where they are determining their proposed land uses and stormwater management systems. Although many start off with agricultural land uses, once the boundary is approved, the loads should go to the CDDs since they are the governing bodies that manage their stormwater systems and determine their land uses not the MS4.

Answer: Additional CDDs that meet the three criteria for allocations will be included as allocated stakeholders part of the next BMAP update.

Question: We appreciate the additional storage and treatment of the South Florida Water Management District (SFWMD) projects that are underway. How will the reductions from these projects be distributed to the stakeholders? Martin County has previous agreements with the SFWMD due to our financial contribution to the project on the distribution of the reductions from the C-44 reservoir that should be honored during the next update.

Answer: The reductions from regional projects completed by the Coordinating agencies (SFWMD, DEP, and Florida Department of Agriculture and Consumer Services [FDACS]) will go towards achieving reductions needed on agricultural lands that are above and beyond requirements for owner-implemented best management practices (BMPs).

Question: As a suggestion, please include within the targeted restoration area (TRA) analysis the availability of public lands for projects. Targeting basins on the water quality data should be priority, but if land is not available in the basin, it will be hard to create projects to provide reductions. **Answer:** This suggestion is noted. Consideration for public lands can be a factor used once the high priority basins have been identified and additional analyses are occurring.

Question: According to the TRA and the hotspot analysis, it appears that the C-24 basin is identified as priority 1 and the most impaired. Most of that basin is agricultural, yet according to FDACS' presentation, most of the land has been enrolled in the BMP notice of intent (NOI) program. How will projects be prioritized in this basin if agricultural land is presumed under rule to meet the water quality requirements when they are enrolled in the program?

Answer: Agricultural producers in a BMAP are required to either implement BMPs from the appropriate FDACS manual or monitor water quality. The owner implemented BMPs will achieve a portion of the reductions needed from the agricultural lands. The Coordinating Agencies will work with producers and local stakeholders to identify additional projects (such as agricultural cost-share or regional treatment) to meet the remaining required reductions.

Question: Any water quality sampling results that are taken during Lake Okeechobee discharges or for a period of time after these discharges should be removed from any TRA or hotspot analysis since DEP presumes within this TMDL/BMAP that Lake Okeechobee is meeting its water quality limits. These results skew the analysis and inappropriately assign those impacts to local stakeholders and are contrary to the original assumption that Lake Okeechobee is not impaired.

Answer: The TRA evaluation and hotspot analysis are not used to assign load reductions to the stakeholders. These evaluations are used to determine areas of the watershed in which resources should be focused to achieve the TMDL. Consideration could be given in the evaluations about whether results include lake releases when determining what actions are needed in a priority basin.

Question: Please take note that most of the hotspots are in agricultural areas and provide solutions on how we can address these areas in the next BMAP iteration.

Answer: Owner-implemented agricultural BMPs will achieve a portion of the reductions needed from the agricultural lands. The Coordinating Agencies will work with producers and local stakeholders to identify additional projects (such as agricultural cost-share or regional treatment) to meet the remaining required reductions. If you have potential project ideas and/or project locations, please share those with DEP for evaluation.

Question: We appreciate FDACS showing a slide on the agricultural rule. How will FDACs address water quality impairments on agriculture that is enrolled in the BMP NOI program? If a municipal separate storm sewer system (MS4) samples an agricultural area that is enrolled and discovers that it is not meeting the BMAP, what should the MS4 do? Report it to FDACS? **Answer:** Owner-implemented BMPs may not fully achieve nutrient reductions needed to meet TMDL and BMAP requirements. If an MS4 identifies potential water quality concerns on an agricultural property, they can contact FDACS for follow up.

Question: When the DEP Stormwater Rule gets signed by the governor, how will the extra reductions be handled? The stormwater rule requires 95% reduction in Outstanding Florida Waters (OFWs). This will be extra load reductions for the watershed. Will each MS4 need to track the extra reductions? **Answer:** BMAP credits are assigned for nutrient reductions that occur above and beyond any permit requirements. Future projects implemented under the revised stormwater rule requirements will need to be meet the new required treatment efficiencies. If additional reductions are provided beyond those requirements, BMAP credit could be provided for that additional treatment. The higher treatment requirements under the new rule will reduce the water quality impacts from development.

Question: Loading should be determined through sampling and scientific data rather than land use estimates wherever possible.

Answer: Noted. Measured loading information is used in evaluations, where available.