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

Nov. 20, 2024 at 2:30 p.m. EST
Hendry County Emergency Operations Center (EOC)
EOC Conference Room
4425 W. State Road 80
LaBelle, FL 33935

Agenda

- Florida Department of Environmental Protection BMAP Presentation
- South Florida Water Management District Presentation
- Florida Department of Agriculture and Consumer Services Presentation
- Poster Session/Open Discussion
- Conclusion

Please note the FTP site for documents pertaining to the various BMAPs:
http://publicfiles.dep.state.fl.us/DEAR/BMAP/
For more information, contact: Diana Turner, 850-245-8825, Diana.M.Turner@FloridaDEP.gov

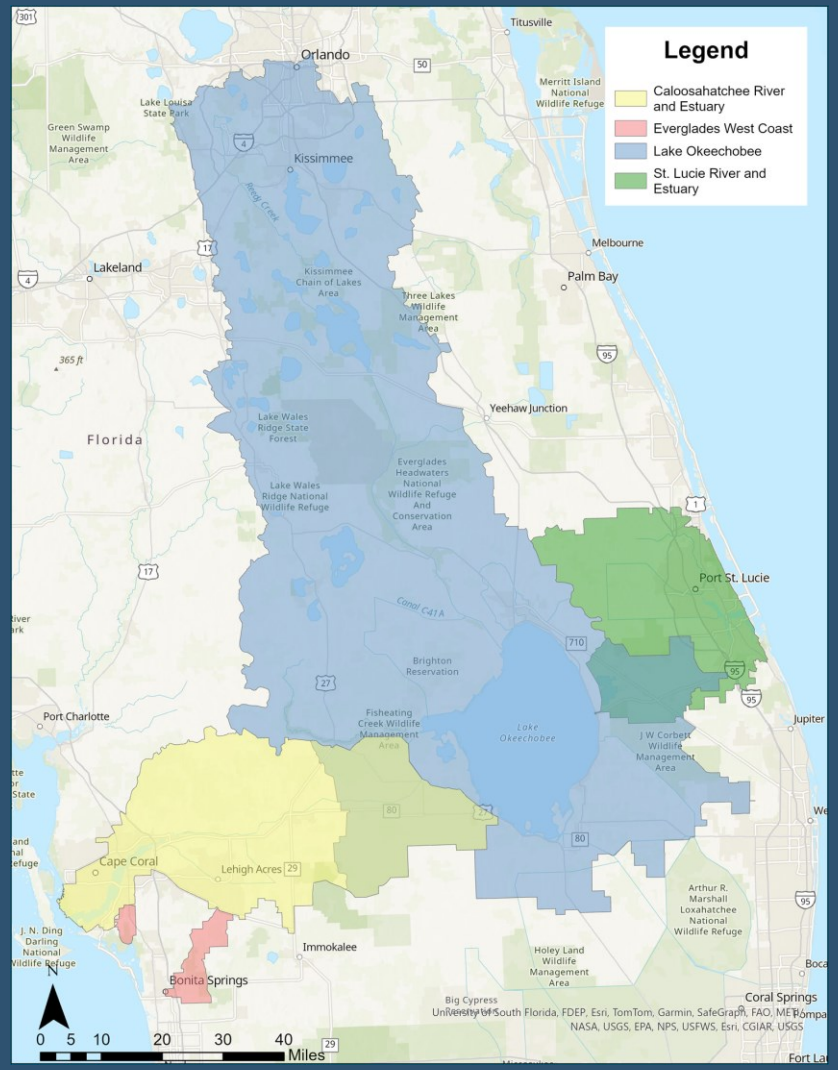
CALOOSAHATCHEE RIVER AND ESTUARY BASIN MANAGEMENT ACTION PLAN (BMAP) UPDATE TECHNICAL MEETING

Anthony Tomalewski
Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection

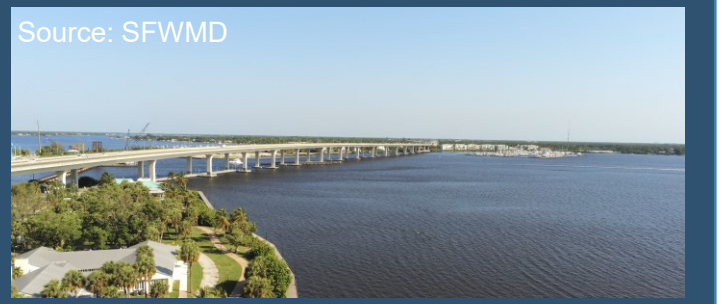
LaBelle, FL | Nov. 20, 2024

Source: South Florida Water Management District (SFWMD)

BMAP UPDATE MEETING




Source: SFWMD


Source: SFWMD


Source: SFWMD

Agenda:

- Logistics.
- Basin Management Action Plan (BMAP) Update Highlights.
- South Florida Water Management District (SFWMD) Watershed Protection Plans Highlights.
- Florida Department of Agriculture and Consumer Services (DACS) Update.
- Poster Session.

BMAP UPDATE COMPONENTS

- Recent legislative requirements:
  - Clean Waterways Act (2020).
  - Wastewater effluent limits changes.
  - Onsite Sewage and Treatment Disposal System (OSTDS) requirements for new systems on lots 1 acre or less.
- List of identified projects to meet five-year milestones.
- Regional projects.
- Hot spot analysis.
- Additional water quality analyses.
- Additional updates needed to the monitoring network.
- Recommendations from the Five-Year Review.


Source: SFWMD


Source: SFWMD


Source: SFWMD

UPCOMING SCHEDULE

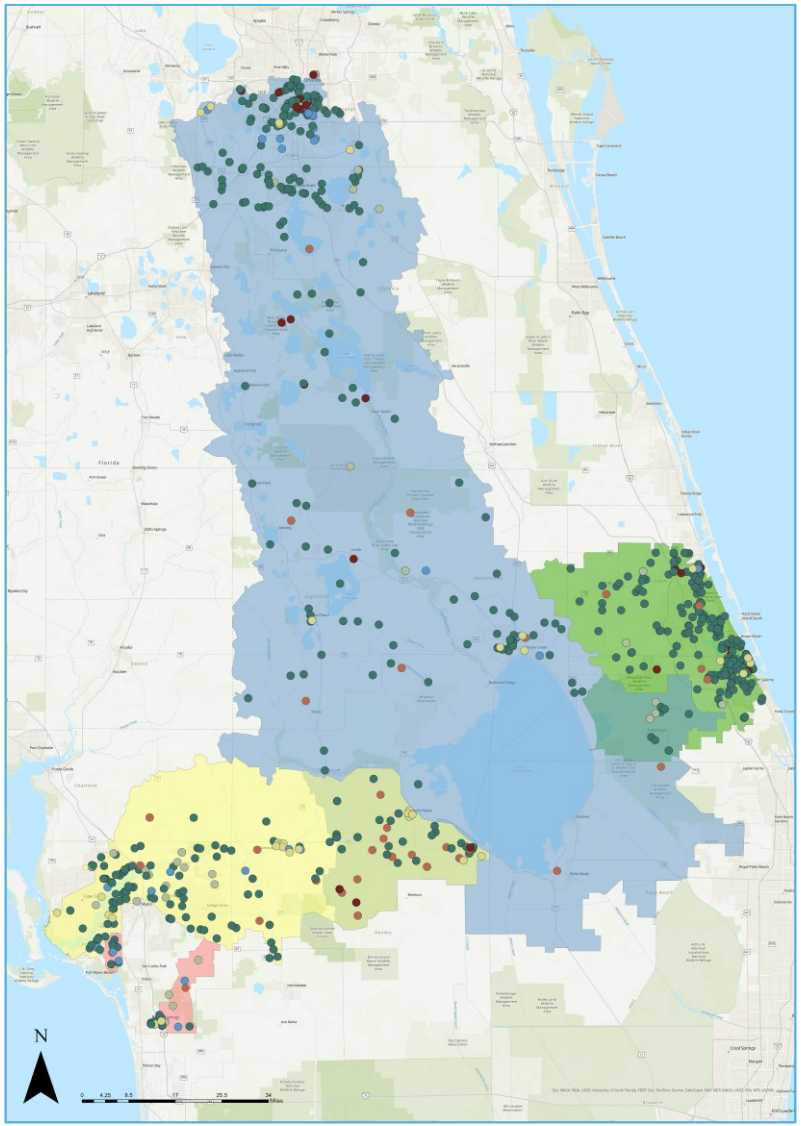
- Aug. 1, Final wastewater treatment plans and OSTDS remediation plans due.
- Nov. 18, Second Annual NEEPP Public Workshop.
- Nov. 19 - 21, Technical BMAP update public meetings.
- Jan. 2025, Draft BMAP update public meetings.
- Jan./Feb. 2025, Draft BMAP update comment period.
- July 1, 2025, Statutory deadline for updated nutrient BMAPs.

PROJECT PORTAL IS OPEN

- Portal will remain open through mid-January 2025 for annual reporting.
- Updates to existing projects and any newly input planned projects needed to reach next milestone have been submitted and are being compiled.


Winter Park Stormwater Retrofit


Rio/St. Lucie Stormwater Retrofit



THANK YOU

Anthony Tomalewski
Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection

Contact Information:
850-245-8683
Anthony.Tomalewski@FloridaDEP.gov

Source: SFWMD

SFWMD Update

2025 Caloosahatchee River Watershed Protection Plan (WPP) Update

Megan Jacoby, Bureau Chief

Everglades & Estuaries Protection Bureau

Caloosahatchee River and Estuary BMAP Meeting – LaBelle

November 20, 2024

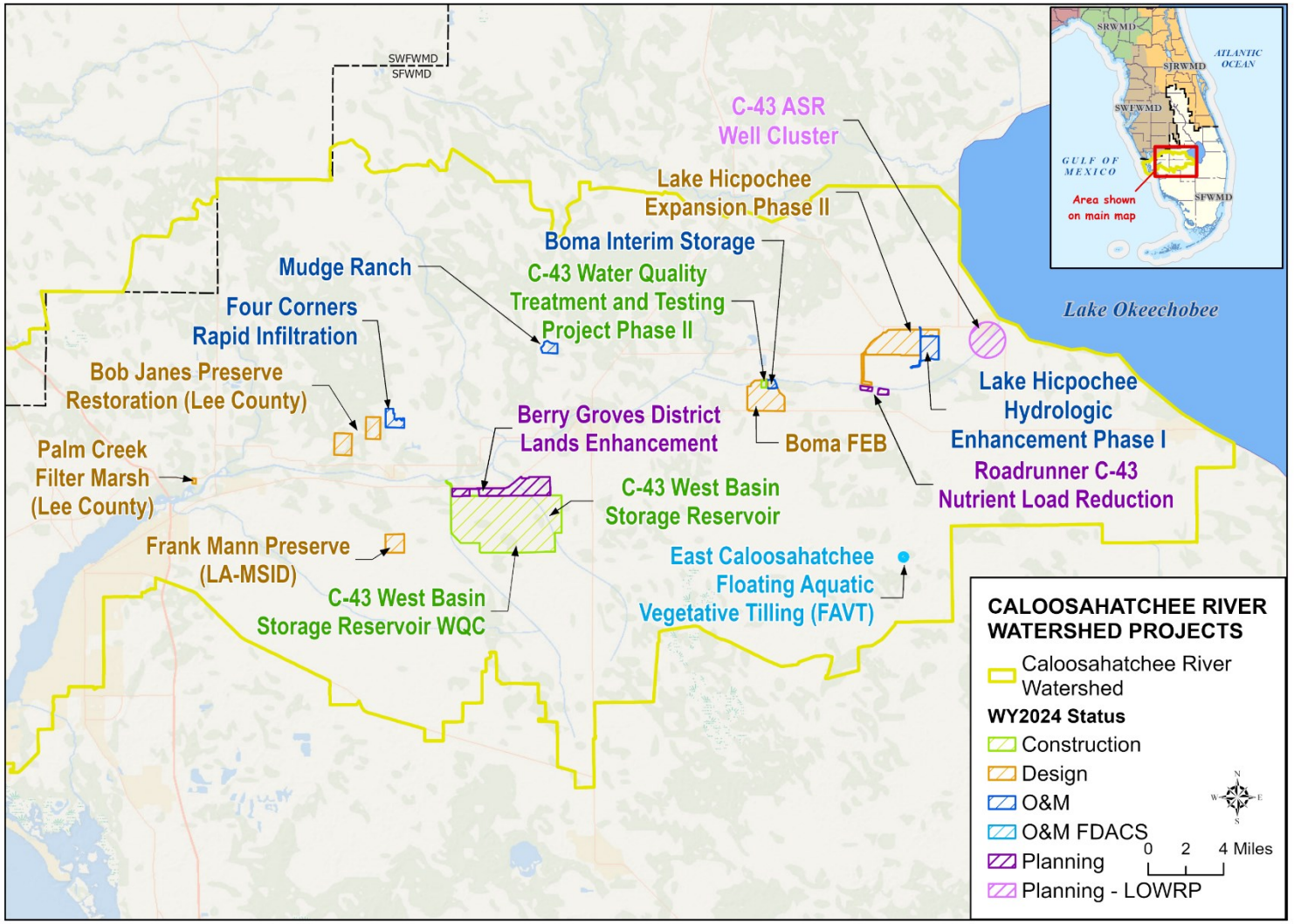
2025 Caloosahatchee River Watershed Protection Plan Update – *5-Year Update*

- Since 2020, SFWMD completed 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
  - Consolidate into NEEPP annual progress reporting (South Florida Environmental Report, or SFER) per §373.4595(6), F.S.
  - ***Develop and update WPPs required every five years***
- Draft 2025 CRWPP Update (5-Year Update)
  - Project accomplishments through Fiscal Year (FY) 2024 (Oct. 1, 2023–Sept. 30, 2024); data evaluation/key findings through Water Year (WY) 2024 (May 1, 2023–April 30, 2024)
  - Draft 2025 SFER – Volume I, Chapter 8D (available at SFWMD.gov/SFER)

SFWMD Projects

- 2024 CRWCP Status:
  - 4 projects – planning/design
  - 3 projects – construction
  - 4 projects – operations

Inflow pumps at Four Corners Rapid Infiltration Project

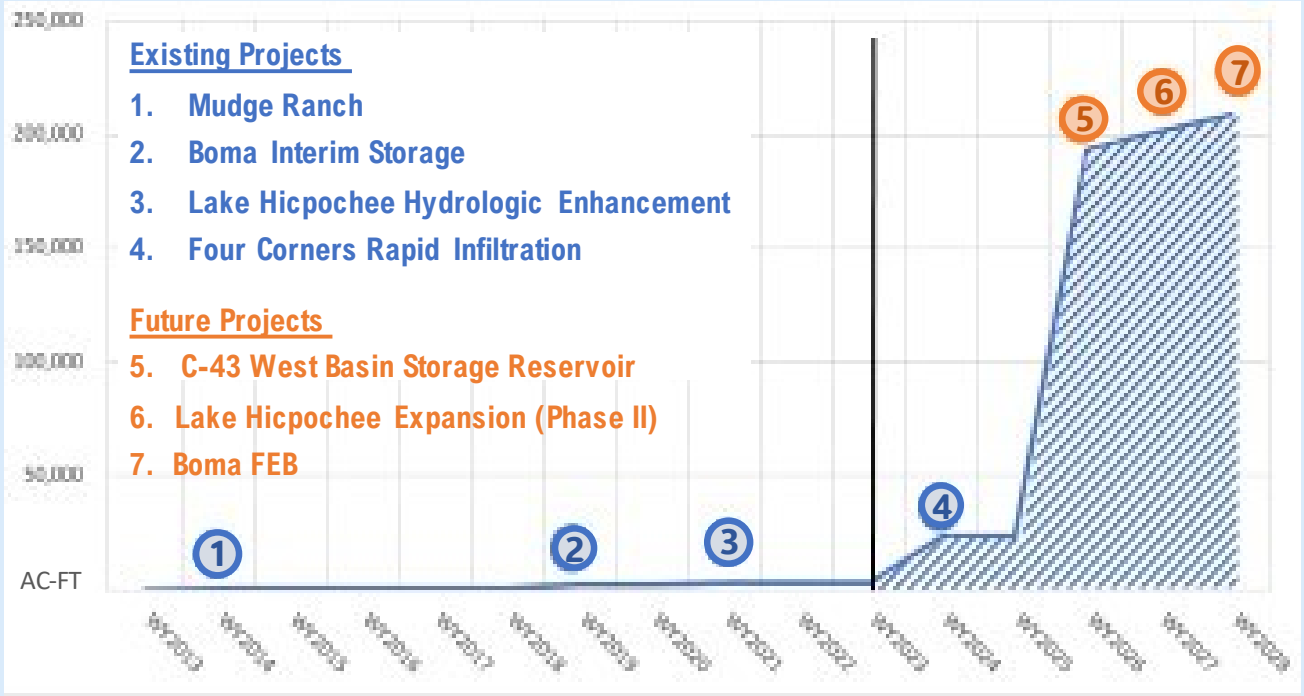


Water Storage Benefits

- 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
- During WY2024, 3 SFWMD-led operational projects provided 25,274 ac-ft of storage*
- Future projects are planned to add storage capacity of nearly 184,000 ac-ft over the next five years

** Note: WY2024 data does not include the Hicpochee Hydrologic Enhancement (Phase I) Project*

Increasing Water Storage in the Caloosahatchee River Watershed



NEEPP Model Update

- Original 2008/2009 storage targets for Northern Everglades watersheds have been confirmed to meet the NEEPP legislative goals
  - CRW storage target = 400,000 acre-feet per year
- **New!** 2025 NEEPP Regional Simulation Model Update
  - Evaluated hydrology using the Regional Simulation Model for Basins (RSMBN)
  - Current, future, and additional conceptual projects were evaluated for hydrologic performance across all three Northern Everglades watersheds
  - SFWMD is making progress toward the NEEPP storage goals—both realized and planned
- Now Underway: 2025 Update Reviews
  - Model overview poster today
  - Draft modeling results presented at upcoming NEEPP Public Workshop
  - Draft 2025 SFER – Volume I, Appendix 8A-1 for public review (SFWMD.gov/SFER)

Mark Your Calendars!


Caloosahatchee Estuary
Oyster Reef

AVAILABLE NOW

2025 CRWPP Update

Draft 2025 SFER – Volume I, Chapter 8D

Web Release Date: November 12, 2024
Public Comment Period: through December 17, 2024

For more information, visit:
SFWMD.gov/SFER

Presenter: Stacey Ollis

Contact Information

Megan Jacoby, Bureau Chief

Everglades & Estuaries Protection Bureau

South Florida Water Management District

mjacoby@sfwmd.gov; 561-682-6517

sfwmd.gov

Caloosahatchee River and Estuary BMAP Public Meeting

November 20, 2024

Florida Department of Agriculture and Consumer Services

Office of Agricultural Water Policy

Jennifer Thera

Office of Agricultural Water Policy (OAWP)

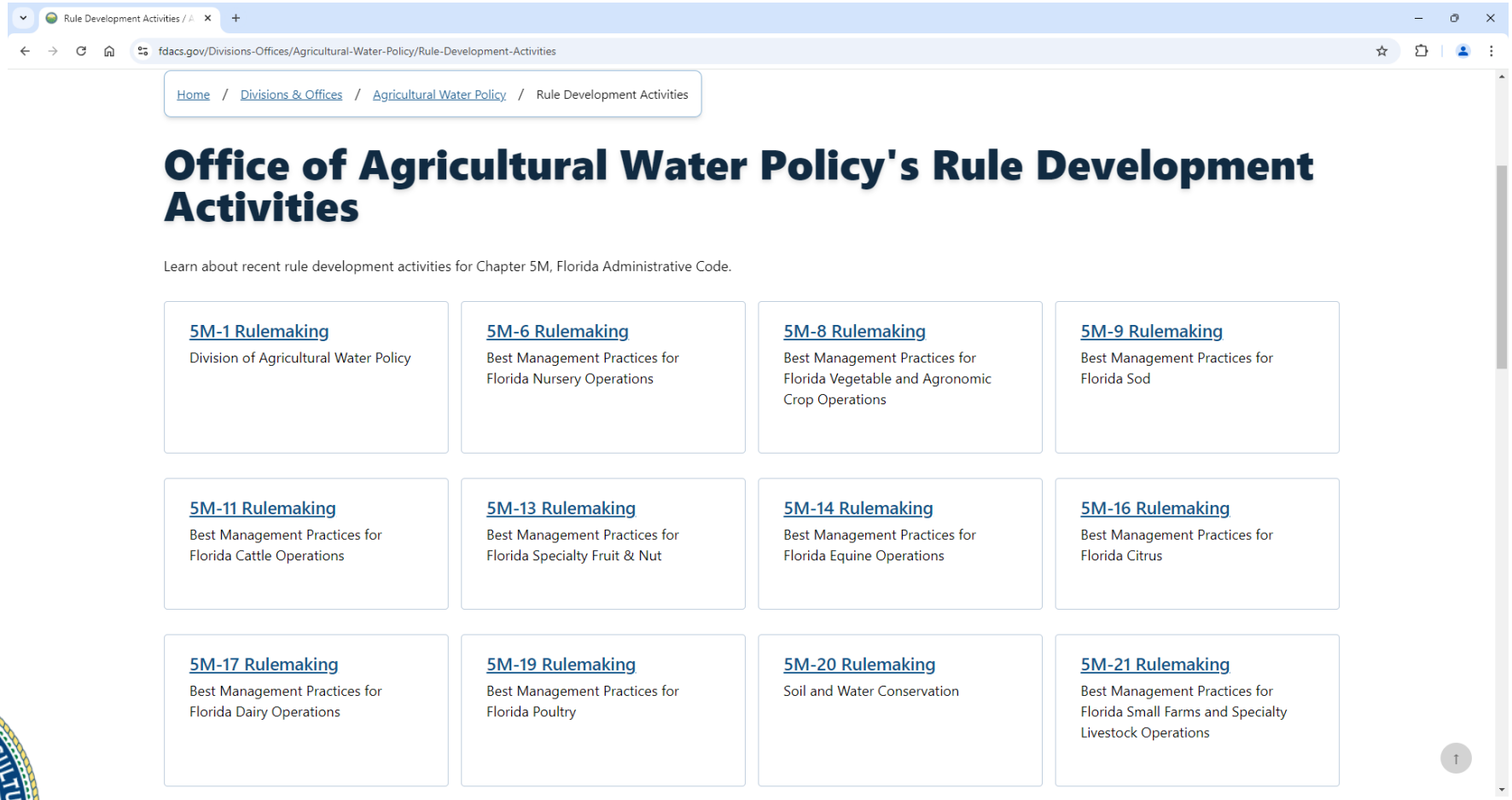
- **West Gregory;** Director West.Gregory@FDACS.gov
- **J.P. Fraites;** Asst. Director John.Fraites@FDACS.gov
- **Bret Prater;** Asst. Director Bret.Prater@FDACS.gov
- **Angela Chelette;** Chief of Policy Planning and Coordination Angela.Chelette@FDACS.gov
- **Yesenia Escribano;** Chief of Policy Planning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

OAWP Staff

- **Maddy Hart;** Environmental Administrator - Madeline.Hart@fdacs.gov
- **Jennifer Thera;** Environmental Consultant-PPC Jennifer.Thera@fdacs.gov
- **Rebecca Elliott;** Environmental Consultant-PPC Rebecca.Elliott@fdacs.gov
- **Matt Warren**; Environmental Administrator-Field Services Matt.Warren@fdacs.gov
    - **Vacant**; Environmental Manager-Field Services
    - **Sheila Kitaif;** Environmental Manager-Field Services Sheila.Kitaif@fdacs.gov
- **Jessica Ferris;** Regional Project Coordinator Jessica.Ferris@fdacs.gov

Best Management Practices (BMP) Manual Updates

https://www.fdacs.gov/Divisions-Offices/Agricultural-Water-Policy/Rule-Development-Activities



Cost Share

https://www.fdacs.gov/Agriculture-Industry/Water/Agricultural-Best-Management-Practices/BMP-Cost-Share-Program

On Website

- Producer Eligibility Requirements
- List of Project Types Eligible for Cost Share Funding
- Opportunity to apply for new types
- New Application Portal is active

BMP Cost Share Program

The Florida Department of Agriculture and Consumer Services' (FDACS) Office of Agricultural Water Policy (OAWP) administers the Best Management Practices (BMP) Cost Share Program to assist eligible producers or landowners with BMPs. Project funding is on a continuous basis until program funds are fully encumbered.

OAWP will prioritize awarding first-time participants in the BMP Cost Share Program and projects that will result in the highest level of nutrient reductions to help achieve basin management action plan (BMAP) goals and conservation of water use. Funding will be based on the submittal of the necessary information on the funding request. Completed requests will be reviewed in the order in which they are received. Review of each cost share funding request will be conducted by FDACS. Additional information from the producer, including a site visit, may be requested by FDACS before a funding decision is made.

FDACS will review completed requests based on the following minimum criteria:

1. Confirmation of producer eligibility.
2. Prioritization of projects taking place in a BMAP.
3. Confirmation that the project type is on the approved list, to be used for implementing a checklist item, has an adequate relative water quality benefit, and is appropriate for the size of the operation.
4. Justification and consideration of the water quality benefit or water quantity benefit and the relative size and scope of the benefit.
5. Confirmation that the project type is directly linked to the implementation of the producer's manual checklist item.
6. Confirmation that the project type has the necessary precision/technology features.
7. The level of data-reporting commitment from the producer and corresponding cost share percentage.

Producer Eligibility Requirements

When applying, producers must meet the following requirements for their funding request to be considered:

1. The property where the prospective project is located must be in production for at least one year prior to applying (regardless of ownership/lease).
2. The producer must have an active Notice of Intent to Implement Agricultural BMPs (NOI) for the property where the

Project Types Eligible for Cost Share Funding

Project types eligible for cost share funding are provided in the expandable lists below. FDACS will determine the suitability of the project type based on the cost/benefit of the project and the estimated water quality or water quantity benefit compared to the current practice.

- Nutrient Management Project Types
- Irrigation Management Project Types
- Water Resource Protection Project Types

New Project Types

Producers may request an item or project that is not currently on the list by submitting a request that:

1. Identifies the applicable BMP checklist item that will be implemented through the installation of the item or completion of the project.
2. Describes why the new project type is necessary to implement the BMP compared to the producer's current practices.
3. Quantifies the estimated water quality benefit compared to the current practice.
4. Provides justification or proof of the item having a water quality or water quantity benefit (e.g., case studies, research, demonstrations or field tests).

Project types that show potential but do not satisfy the four criteria above may be eligible for funding as "research or demonstration projects" for the purpose of becoming eligible in the future.

How to Request Project Funding or a New Project Type

To request project funding or a new project type, select the following button to create an account and sign into our BMP Cost Share Program portal:

Request Project Funding

Alternatively, you may download and complete the Funding Request Form [1.3 MB] and submit it to OAWPCostShare@FDACS.gov. **Please note:** Submitting a form may take more time to process and review.

Important: Do not begin work on a project prior to executing a cost share agreement.

Additional Funding Resources

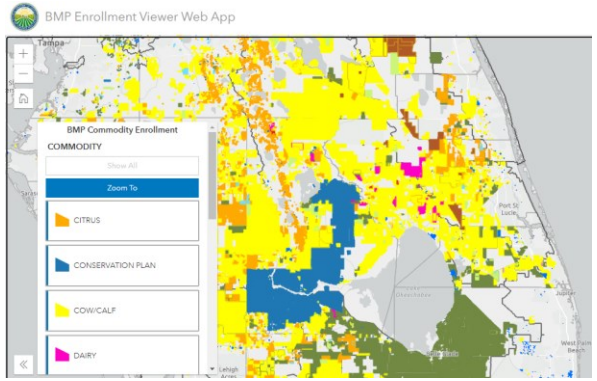
FDACS works with multiple partners, including the U.S. Department of Agriculture's Natural Resources Conservation Service, the Florida Department of Environmental Protection, water management districts, and soil and water conservation districts, to provide funding to assist producers in implementing Best Management Practices.

Agricultural Lands in the Caloosahatchee BMAP

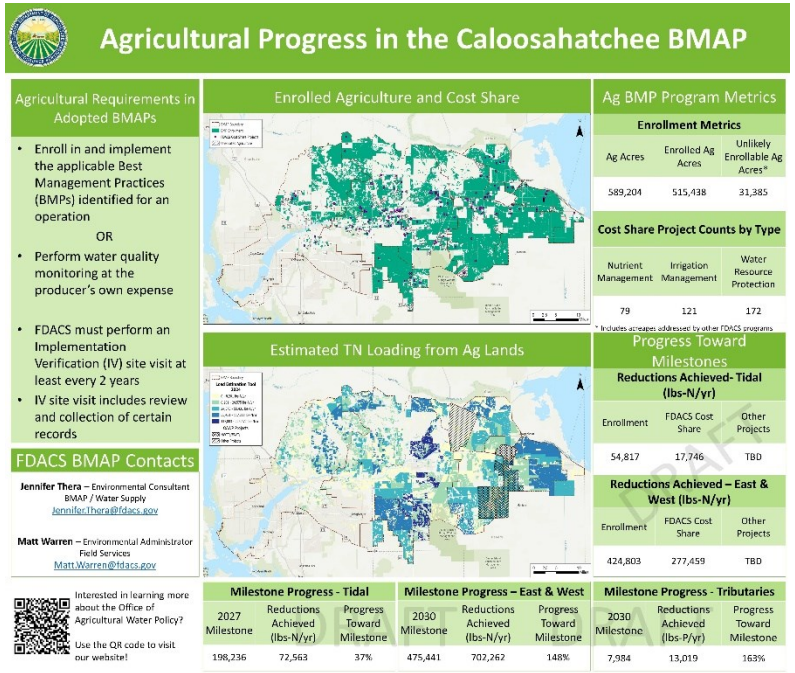
Location	Agricultural acres	Unenrolled - Unlikely Enrollable Acres	Agricultural Acres – Adjusted	Agricultural Acres Enrolled as of April 30, 2024	% Agriculture enrolled in BMP Program
C19	24,540	637	24,374	24,116	99%
East Caloosahatchee	194,582	10,606	192,099	175,636	91%
Lake Hicpochee	5,189	1,656	4,953	4,675	94%
Long Hammock	68,802	6,395	65,867	56,045	85%
S4	29,284	1,211	30,040	27,547	92%
Tidal Caloosahatchee	57,182	5,974	50,650	46,126	91%
Townsend	28,868	265	28,003	26,828	96%
West Caloosahatchee	180,758	8,670	167,128	153,026	92%

BMP Enrollment Viewer Web App:

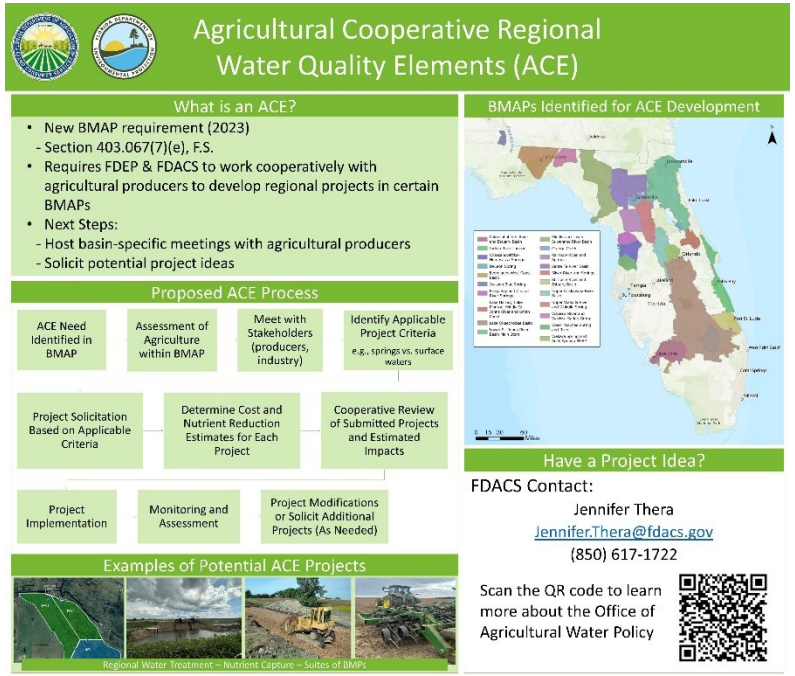
[Office of Agricultural Water Policy: BMP Enrollment Map (fdacs.gov)]



Poster #1 - BMAP Metrics



Poster #2 - Regional Projects/ACE



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

Thank You!

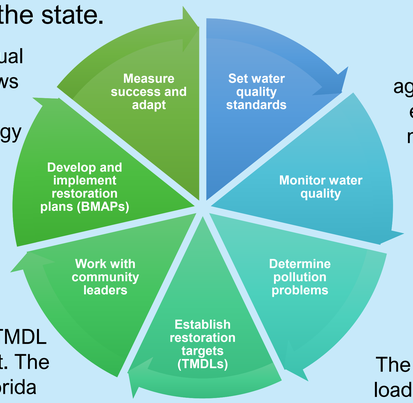
BASIN MANAGEMENT ACTION PLANS (BMAPS)

SOUTH FLORIDA BMAPS

Water Quality Restoration Cycle

The Florida Department of Environmental Protection's (DEP) Division of Environmental Assessment and Restoration (DEAR) monitors and assesses Florida's surface water and groundwater quality across the state.

The Statewide Annual Report (STAR) shows project and management strategy implementation progress made in BMAPs.



DEP and partner agencies maintain and expand water quality monitoring networks.

BMAPs address a TMDL for a given pollutant. The BMAPs in south Florida target nitrogen and phosphorus.

The total maximum daily load (TMDL) is the water quality target

Statutory Requirements

Authority and responsibility comes from several Florida Statutes (F.S.), with some highlights described below:

Florida Watershed Restoration Act (Section 403.067, F.S)
- Cooperative implementation of plans to restore our waters, known as BMAPs.

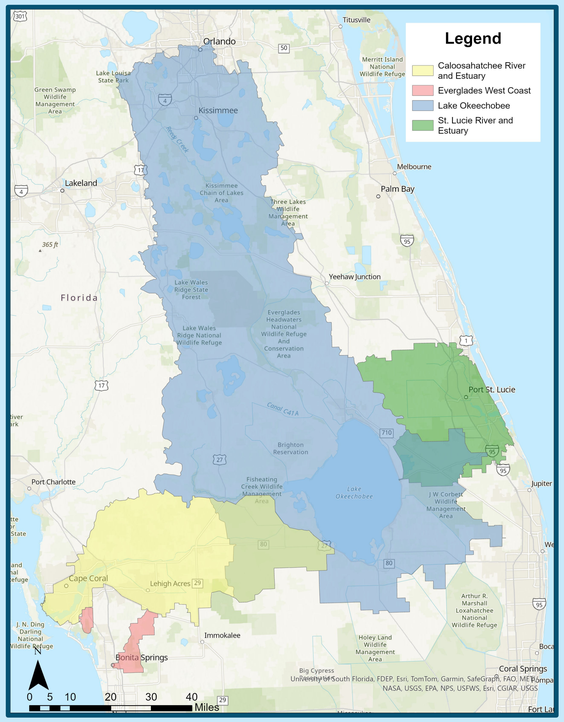
Northern Everglades and Estuaries Protection Program (Section 373.4595, F.S.)
- Strengthens provisions for implementing the Lake Okeechobee, Caloosahatchee and St. Lucie BMAPs.
- Clarifies the roles and responsibilities, coordination, implementation and reporting efforts among DEP, Florida Department of Agriculture and Consumer Services (DACS) and South Florida Water Management District (SFWMD).
- Includes five-, 10- and 15-year measurable milestones and targets to achieve the TMDLs addressed by the BMAPs. If achieving the TMDL within 20 years is not practicable, the implementation plan must include an explanation of the constraints that prevent achievement, an estimate of the time needed to achieve the TMDL, and additional five-year measurable milestones.

Clean Waterways Act (2020)
- Promotes resilient wastewater infrastructure and utilities and looks at future growth.
- Requires local governments within a BMAP to develop wastewater treatment plans and/or onsite sewage treatment and disposal system (OSTDS) remediation plans to be incorporated into BMAP updates.

House Bill 1379 (2023)
- Requires BMAPs be assessed and updated every five years as needed to include implementation milestones and other requirements.
- Requires a list of projects and strategies that will achieve the five-year implementation milestones to meet TMDLs, as well as agricultural cooperative regional water quality improvement elements.
- Requires facilities discharging to a waterbody impaired for nutrients or subject to a BMAP or reasonable assurance plan (RAP) area to upgrade to advanced wastewater treatment (AWT) within 10 years.
- Requires applicants for new septic systems serving lots of 1 acre or less within BMAPs and RAPs must connect to central sewer if available, or if unavailable, to install an enhanced nutrient-reducing system or other wastewater system that achieves 65% reduction.
- Requires local governments to include BMAP projects in their comprehensive plans so these projects can be prioritized to achieve restoration benefits.
- Expands grant opportunities to accelerate project implementation.

House Bill 1557 (2024)
- Requires advanced treatment of reclaimed water within BMAPs.
- Requires facilities (including private) to provide information to local entities developing domestic wastewater treatment plans and OSTDS remediation plans within BMAP or other restoration areas.

South Florida BMAPs




Source: SFWMD; Caloosahatchee River


Source: SFWMD; Lake Okeechobee

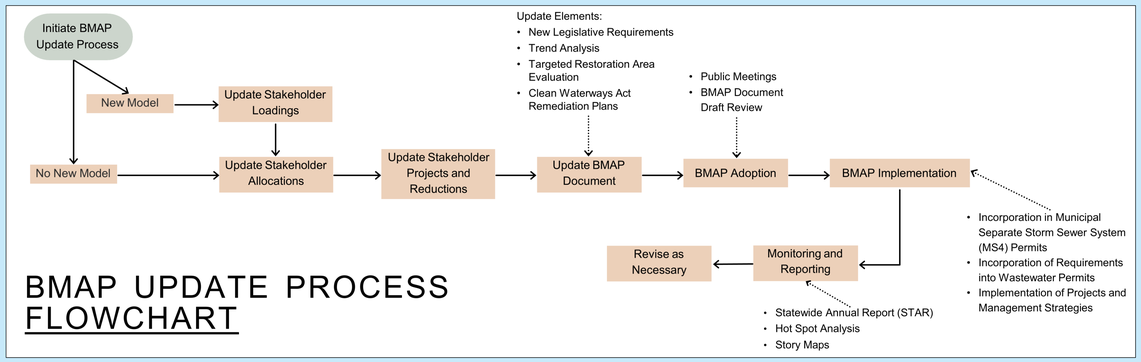

Source: SFWMD; St. Lucie Estuary


Source: DEP; Hendry Creek

BMAP Update Process

What is a Basin Management Action Plan?
- A BMAP is a framework for water quality restoration that contains a comprehensive set of solutions to achieve the pollutant reductions established by a TMDL.
- A BMAP is developed with local stakeholders and relies on local input and commitment for successful implementation.
- BMAPs are adopted by Secretarial Order and are legally enforceable.
- BMAPs use an adaptive management approach that allows for incremental load reductions through the implementation of projects and management strategies, while simultaneously monitoring and conducting studies to better understand the water quality and hydrologic dynamics.

Key Elements of a BMAP:
- TMDL(s) being addressed. These are the restoration targets.
- Physical description of the waterbody and contributing area.
- Description of the monitoring network and water quality.
- Identification of pollutant sources.
- Identification of responsible stakeholders.
- List of projects and strategies to reduce loading.
- Applicable legal requirements.

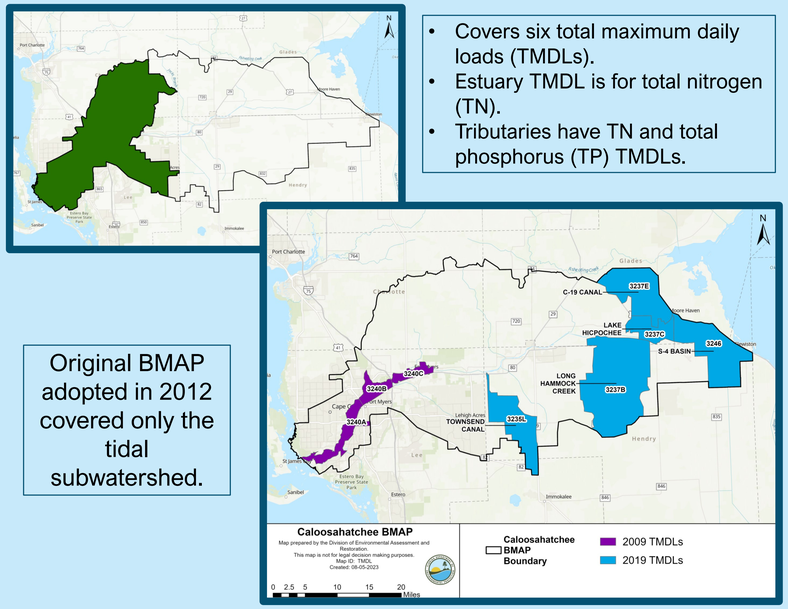


Moira Homann, Program Administrator
Moira.Homann@FloridaDEP.gov
850-245-8460

CALOOSAHATCHEE RIVER AND ESTUARY BASIN MANAGEMENT ACTION PLAN (BMAP)

WATER QUALITY ANALYSES

BMAP Background

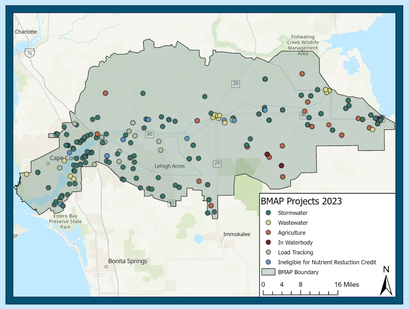


- Covers six total maximum daily loads (TMDLs).
- Estuary TMDL is for total nitrogen (TN).
- Tributaries have TN and total phosphorus (TP) TMDLs.

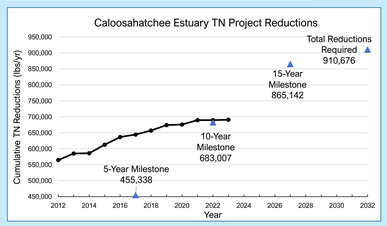
Original BMAP adopted in 2012 covered only the tidal subwatershed.

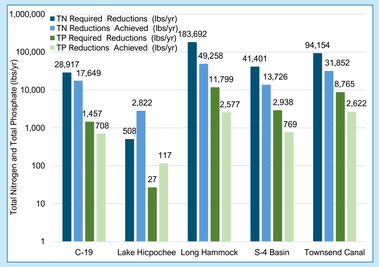
Statewide Annual Report (STAR) 2023

Lead Entity	Completed	Ongoing	Planned	Underway
Barron WCD	1	1	3	
Charlotte County		1		
City of Cape Coral	14	3	1	1
City of Clewiston	3	3		
City of Fort Myers	11	2	3	1
City of LaBelle				5
City of Moore Haven	1		1	
Clewiston Drainage District	1	1	3	
Collins Slough WCD	1	1	3	
County Line Drainage District	1	1		3
Cow Slough WCD	1	1	3	
Devil's Garden WCD	1	1	3	
Disston Island Conservancy District	1	1	3	
FDACS		6		
FDOT District 1	29	2		
Flaghole Drainage District	1	1	3	
Gerber Groves WCD	1	1	3	
Glades County	2			2
Hendry County	1		4	3
Hendry-Hilliard WCD	1	1	3	
LA-MSID (formerly ECWCD)	15	1	1	1
Lee County	44	2	4	1
Lucaya CDD		2		
Mirada CDD		2		
Port LaBelle CDD			1	
Portico CDD	3	1		
SFWMD - Coordinating Agency	3		3	2
Sugarland Drainage District	1	1	3	
Verandah East CDD		1		
Verandah West CDD		1		

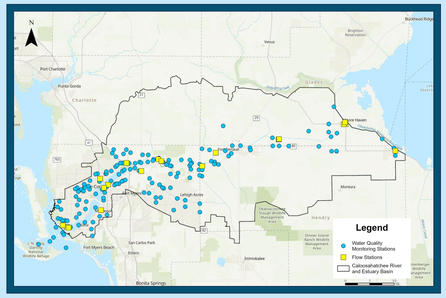


More recent tributary projects have begun to address TN and TP loading in the East and West Caloosahatchee subwatersheds.





Water Quality Monitoring Network



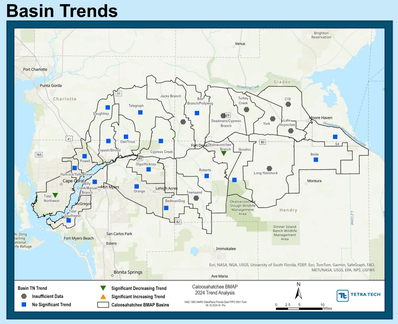
Water Quality Parameters Monitored	
Alkalinity	Nitrate-Nitrite (N)
Ammonia (N)	Total Kjeldahl Nitrogen (TKN)
Biological Oxygen Demand (BOD)	Total Nitrogen (TN)
Organic Carbon	Orthophosphate (P)
Total Carbon	pH
Chlorophyll-*a*	Total Phosphorus (TP)
Color	Specific Conductance/Salinity
Dissolved Oxygen	Temperature
Dissolved Oxygen (Saturation)	Total Suspended Solids
Flow	Turbidity

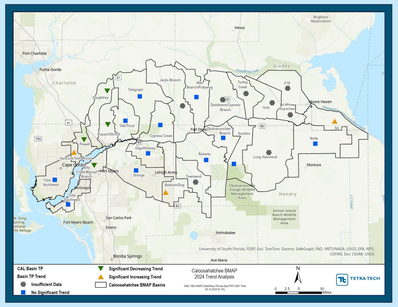
Water quality is monitored at 62 stations throughout the watershed.

Water Quality Trend Analyses

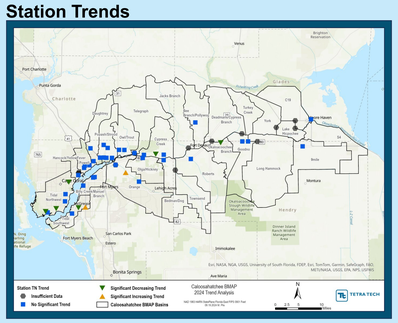
Seasonal Kendall trend analysis investigates trends in TN and TP concentrations for the basins and for the BMAP monitoring network stations.

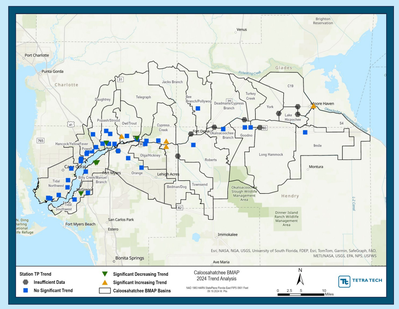
Basin Trends



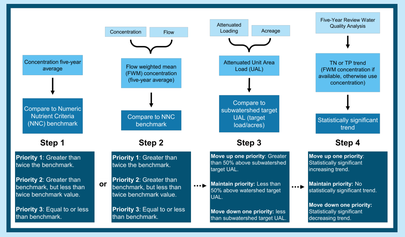


Station Trends

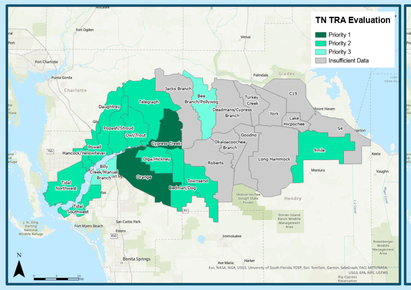


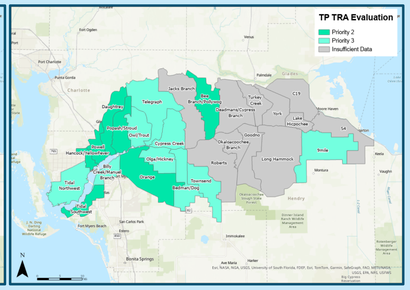


Targeted Restoration Area Evaluation



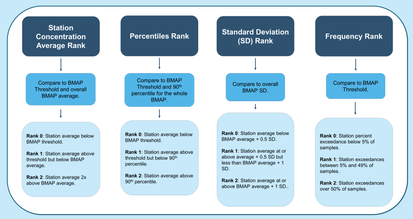
Targeted Restoration Areas (TRA) sequentially compare four parameters to determine priority basins for restoration projects.

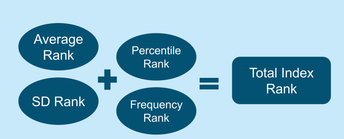




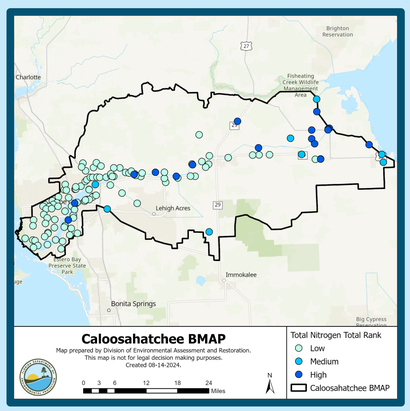
Hot Spot Analysis

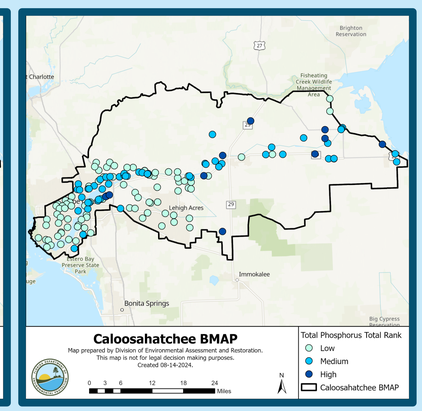
Analysis method for prioritization at a more local scale than the TRA analysis.





Rank 0 = Least Concern.
Rank 8 = High Concern.





Anthony Tomalewski, Basin Coordinator
Anthony.Tomalewski@FloridaDEP.gov
850-245-8683

CALOOSAHATCHEE RIVER AND ESTUARY BASIN MANAGEMENT ACTION PLAN (BMAP)

REQUIRED REDUCTIONS AND MILESTONES

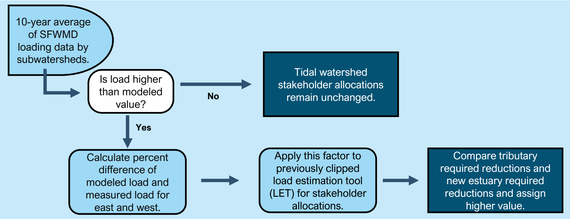
Projects

Responsible entities are required to identify, plan, complete and report on projects that reduce the loading of nitrogen from sources.

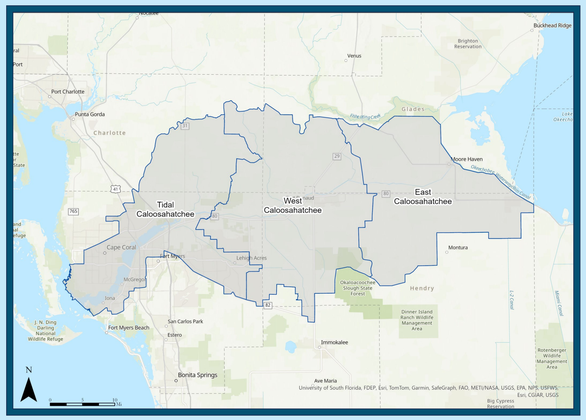
The basin wide reductions are assessed by source and then allocated to responsible entities.

Project collection and reporting are crucial to the successful implementation and management of BMAPs. Projects are reported to the Florida Department of Environmental Protection (DEP) annually through the BMAP Project Collection Portal. Project lists with associated reductions are published in the Statewide Annual Report (STAR).

Required Reductions Update



Subwatershed	BMAP TN Start Load (lbs./yr.)	TN Required Reduction (lbs./yr.)	10-Year Average Water Year 2013–22 (lbs./yr.)	Percent Increase
East Caloosahatchee	1,008,818	232,028	1,329,467	31.78%
Tidal Caloosahatchee	1,200,195	276,045	1,137,632	▼5.21%
West Caloosahatchee	1,750,448	402,603	2,457,362	40.38%
Total	**3,959,461**	**910,676**	**4,924,461**	**24.37%**



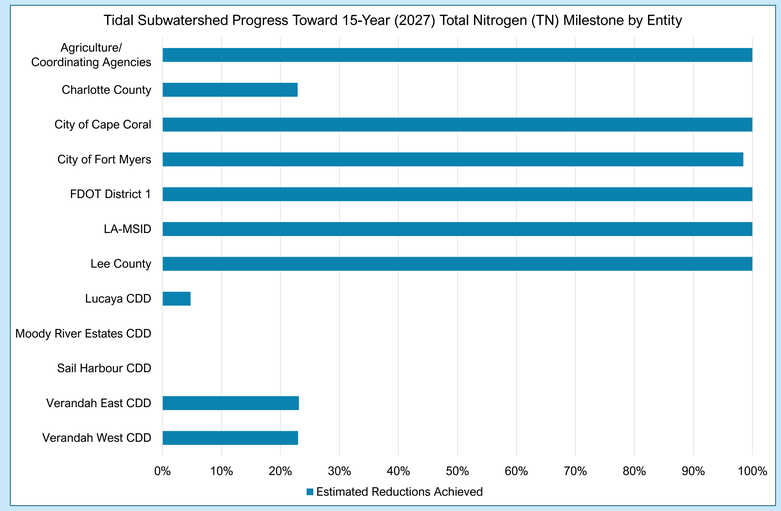
Allowable Load = 3,048,785 lbs/yr TN.
New required reductions: ~1,938,241 lbs/yr TN.

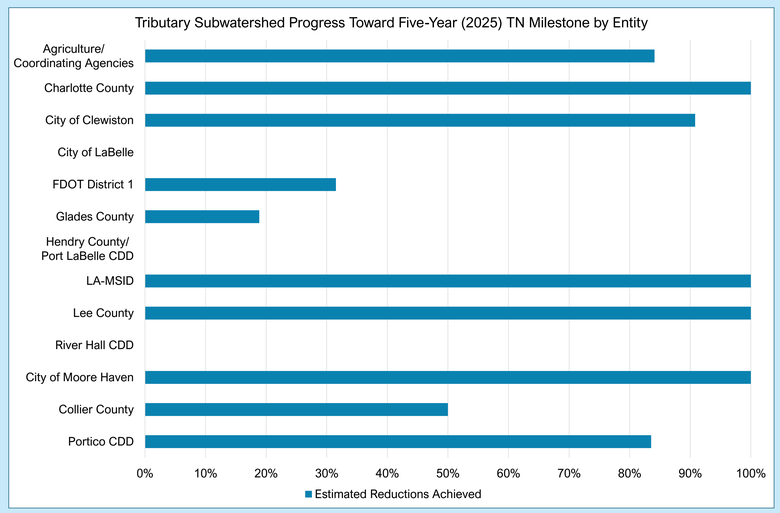
Upcoming Milestones

Responsible entities are required to provide lists of projects that demonstrate how they plan to achieve their required reductions for the next five-year milestone.

It is important that all projects needed to achieve milestone targets are included in the STAR, even if a funding mechanism is not currently identified, as this information gives the State an understanding of the support necessary to achieve BMAP goals and assists with the prioritization of projects.

Estimated reductions in the progress chart below reflect projects entered through December 2023.





BMAP Management Strategies

Nutrient reduction credits can be earned through implementing projects addressing sources of nutrients. Reduction milestones must be met to ensure sufficient progress towards meeting the total maximum daily load (TMDL) target.

Source-Specific Management Strategies:

- **Onsite Sewage Treatment and Disposal Systems:** No new installations of conventional septic systems on lots 1 acre or less.
- **Wastewater Treatment Facilities:** Facilities must meet certain effluent limitations.
- **Agriculture Best Management Practices (BMP) Enrollment:** This program is mandatory in BMAP areas, assumes certain efficiencies as described in the BMAP.
- **Other Agriculture:** Agricultural sources that are not addressed through BMP enrollment and implementation will need to be addressed through activities such as regional projects, cost-share BMPs or innovative technologies.
- **Urban Stormwater:** Ordinances, education, street sweeping and structural stormwater improvements.

Entity Required Reductions

Proposed Reductions in Tidal Caloosahatchee Subwatershed

Entity	TN Existing Load (lbs/yr)	TN BMAP Allowable Load (lbs/yr)	TN Required Reduction (lbs/yr)	5-year (2017) TN Reduction Milestone (lbs/yr)	10-year (2022) TN Reduction Milestone (lbs/yr)	15-year (2027) TN Reduction Milestone (lbs/yr)	20-year (2032) TN Reduction Milestone (lbs/yr)
Agriculture	489,280	280,610	208,669	104,335	156,502	198,236	208,669
Charlotte County	21,446	15,599	5,847	2,923	4,385	5,554	5,847
City of Cape Coral	154,987	116,022	38,965	19,482	29,224	37,016	38,965
City of Fort Myers	77,536	58,043	19,493	9,747	14,620	18,518	19,493
FDOT District 1	14,351	9,253	5,098	2,549	3,824	4,843	5,098
LA-MSID	98,214	63,498	34,716	17,358	26,037	32,981	34,716
Lee County	222,451	162,892	59,559	29,780	44,670	56,581	59,559
Lucaya CDD	350	262	88	44	66	84	88
Moody River Estates CDD	1,687	1,263	424	212	318	403	424
Sail Harbour CDD	505	378	127	64	95	121	127
Verandah East CDD	2,119	1,586	533	266	400	506	533
Verandah West CDD	3,279	2,455	824	412	618	783	824
Total	**1,086,205**	**711,862**	**374,343**	**187,172**	**280,758**	**355,626**	**374,343**

Proposed Reductions in East and West Caloosahatchee Subwatershed

Entity	TN Existing Load (lbs/yr)	TN BMAP Allowable Load (lbs/yr)	TN Required Reduction (lbs/yr)	5-year (2025) TN Reduction Milestone (lbs/yr)	10-year (2030) TN Reduction Milestone (lbs/yr)	15-year (2035) TN Reduction Milestone (lbs/yr)	20-year (2040) TN Reduction Milestone (lbs/yr)
Agriculture	3,185,129	1,826,728	1,358,401	135,840	475,441	1,018,801	1,358,401
Charlotte County	2,362	1,718	644	64	225	483	644
City of Clewiston	8,557	4,853	3,704	370	1,296	2,778	3,704
City of LaBelle	16,426	8,783	7,643	764	2,675	5,732	7,643
City of Moore Haven	2,371	1,344	1,026	103	359	770	1,026
Collier County	82	44	38	4	13	29	38
FDOT District 1	15,013	9,679	5,333	533	1,867	4,000	5,333
Glades County	38,727	21,288	17,439	1,744	6,104	13,079	17,439
Hendry County/Port LaBelle CDD	88,484	48,034	40,451	4,045	14,158	30,338	40,451
LA-MSID	89,653	57,963	31,690	3,169	11,092	23,767	31,690
Lee County	18,395	13,470	4,925	493	1,724	3,694	4,925
Portico CDD	1,686	902	785	79	275	588	785
River Hall CDD	9,334	4,991	4,343	434	1,520	3,257	4,343
Total	**3,476,217**	**1,999,795**	**1,476,422**	**147,642**	**516,748**	**1,107,316**	**1,476,422**

Total Phosphorus (TP) required reductions are not being updated with the 2025 update because of ongoing model updates.

Entity	C-19 Canal (lbs/yr TP)	Lake Hicpochee (lbs/yr TP)	Long Hammock (lbs/yr TP)	S-4 Basin (lbs/yr TP)	Townsend Canal (lbs/yr TP)	Total (lbs/yr TP)
Agriculture	1,276	25	11,106	1782	8,623	22,811
FDOT	48	0	57	45	82	232
City of Clewiston	N/A	N/A	N/A	316	N/A	316
Glades County	133	2	51	199	N/A	386
Hendry County/ Port LaBelle CDD	N/A	N/A	585	596	54	1,235
Collier County	N/A	N/A	N/A	N/A	6	0
Total	**1,457**	**27**	**11,799**	**2938**	**8,765**	**249,860**

SFWMD: South Florida Water Management District

Anthony Tomalewski, Basin Coordinator
Anthony.Tomalewski@FloridaDEP.gov
850-245-8683

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

Hendry County Emergency Operations Center
4425 West State Road 80, LaBelle, FL
Wednesday, November 20, 2024
2:30 pm – 3:30 pm

Participants

Santiago Acevedo, SFWMD
Evelyn Becerra, DEP
Jenna Bobsein, SFWMD
Jennifer Davis, Hendry County
Rebecca Dougherty, SFWMD
Yesenia Escribano, FDACS
Jake Fojtik, FFBF
Alexandria Foos, Geosyntec (FDOT Central)
Marcy Frick, Tetra Tech
Jorge Hernandez, Hendry County
Moira Homann, DEP
Emily Hunter, Hendry County
Megan Jacoby, SFWMD
Jacob Landfield, SFWMD
Celeste Lyon, RES
Libby Pigman, SFWMD
Steve Smith, FDACS
Mary Szafraniec, RES
Jennifer Thera, FDACS
Raychel Thomas, Pavese Law
Tony Tomalewski, DEP
Diana Turner, DEP
Matt Warren, FDACS
Lori Wenkert-Lane, SFWMD
Bonita Whelan, FCA

Welcome and Introductions

Marcy Frick welcomed everyone to the Caloosahatchee River and Estuary BMAP meeting, and the participants introduced themselves and the entity they represent.

Agency Presentations

Tony Tomalewski reviewed the BMAP update components and summarized recent legislative requirements including wastewater and septic system remediation plans. The BMAP update will include a list of projects to meet five-year milestones, as well as regional projects. The Florida Department of Environmental Protection (DEP) has been conducting water quality analyses to evaluate progress including hotspot, targeted restoration area (TRA), and trend evaluations. They also identified any modifications needed to the monitoring network. The BMAP update will include the recommendations from the last 5-Year Review. Tony reviewed the BMAP update schedule, which includes technical meetings this week, draft BMAP update in January for review, another round of public meetings to present on the draft BMAP document, public comment period, and then finalization by July 1, 2025. The BMAP project collection portal was opened early for BMAP updates and it will remain open until mid-January for the Statewide Annual Report (STAR). Tony stated that the numbers on the poster for the project reductions are reflective of the last STAR through December 31, 2023, and do not include the new project information that stakeholders recently provided.

Megan Jacoby stated that the South Florida Water Management District (SFWMD) is conducting the five-year update for the Caloosahatchee River Watershed Construction Project (CRWCP). They have been providing updates on the projects annually in the South Florida Environmental Report (SFER) to promote transparency, provide accountability to stakeholders, and help achieve the total maximum daily loads (TMDLs). The CRWCP has 4 projects in planning/design, 3 in construction, and 4 in operations. She noted that a key part of what they are evaluating is the water storage goal of 400,000 acre-feet.

Projects to date have provided over 25,000 acre-feet of storage, with an additional 184,000 acre-feet of storage from future projects. SFWMD is also updating the previous model from 2008–2009, and the updated model shows the estimated storage needed for this watershed from the previous modeling is correct. The draft 2025 SFER is available for public comment through December 17.

Jennifer Thera reviewed the staff changes at the Florida Department of Agriculture and Consumer Services (FDACS). She noted that they are working to update all 12 best management practice (BMP) manuals and the FDACS website has a rule development activities webpage with the latest details on the updates. They plan to have the updates completed early next year. FDACS is also updating the cost-share program to create a system to evaluate projects and status to provide transparent information. Producers can apply for different measures and FDACS has a better tool to evaluate effectiveness to determine what projects are most needed. They also increased the cost-share limit including higher amounts if the producer agrees to monitoring. Jennifer showed the BMP enrollment status for the Caloosahatchee subwatershed and impaired tributaries as well as the Everglades West Coast subwatersheds. The FDACS website includes an interactive map showing enrollment, commodity type, and last implementation verification visit.

Poster Session

After the agency presentations, a poster session was held to allow participants to have one-on-one discussions with the agency staff, ask questions, and provide comments. No comment cards were submitted during the meeting.