



WEBINAR HOUSEKEEPING

Attendee Participation

Open your control panel

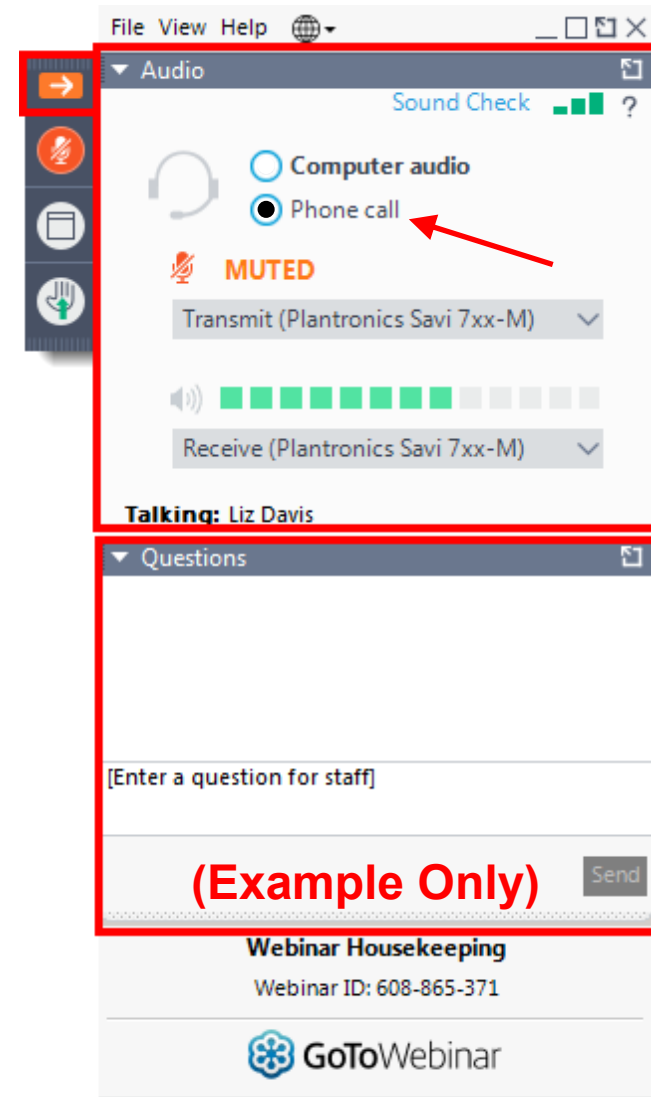
Join audio:

- Choose **Phone Call** and dial using the information provided
- Or choose **Computer Audio** to use your computer's speakers for audio
- Attendee audio will 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 FTP after the webinar.





Annual Meeting for the Lakes Harney, Monroe, Middle St Johns, & Smith Canal Basin Management Action Plan (BMAP)

Evelyn Becerra

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection

GoTo Webinar | August 3, 2023



ANNUAL MEETING AGENDA

Presentation Agenda

- BMAP Updates
- St Johns River Water Management District (SJRWMD) Update
- Florida Department of Agriculture and Consumer Services (FDACS) Update
- Agriculture Enforcement Update
- Funding Opportunities





BMAP PROGRAM STAFF UPDATE

<https://floridadep.gov/dear/water-quality-restoration/content/basin-management-action-plans-bmaps>

- DeLeon Spring
- Gemini Springs
- Long Branch
- Lower St. Johns River Main Stem

Moira Homann

Program Administrator

- Upper Wakulla River and Wakulla Springs
- Volusia Blue Spring
- Wekiwa and Rock Springs
- Wekiva River, Rock Springs Run, and Little Wekiva Canal

Lauren Campbell

Environmental Administrator

Diana Turner

Environmental Administrator

- Lake Okeechobee

Chandler Keenan

BMAP Coordinator

- Suwannee
- Santa Fe
- Homosassa & Chassahowitzka
- Weeki Wachee
- Crystal River/Kings Bay

Sam Hankinson

BMAP Coordinator

- Jackson Blue
- Wacissa River and Wacissa Springs Group

Jessica Fetgatter

BMAP Coordinator

- Silver Springs and Rainbow Spring
- Upper Ocklawaha
- Orange Creek

Anita Nash

BMAP Coordinator

- Alafia River
- Bayou Chico
- Hillsborough River
- Lower St. Johns River Tributaries
- Manatee River

Vacant

BMAP Coordinator

Stacy Cecil

BMAP Coordinator

- Banana River Lagoon
- North Indian River Lagoon
- Central Indian River Lagoon

Nicole Morgan

BMAP Coordinator

- Caloosahatchee River and Estuary
- St. Lucie River and Estuary

Evelyn Becerra

BMAP Coordinator

- Everglades West Coast
- Lakes Harney, Monroe, Middle St. Johns River and Smith Canal
- Lake Jesup

Jared Searcy

FSFSCI Coordinator

- Florida Stormwater, Erosion, and Sedimentation Control Inspector (FSFSCI) Program

Contacts are also on the main [BMAP web page](#).



The Florida Stormwater, Erosion, and Sedimentation Control Inspector (FSESCI) Program

To become qualified to conduct National Pollutant Discharge Elimination System (NPDES) Construction Generic Permit (CGP) Stormwater Inspections, take this class to learn:

- Construction Best Management Practices – Common Techniques and Technologies,
- Proper compliance with the NPDES CGP,
- Creating and reviewing a Stormwater Pollution Prevention Plan (SWPPP),
- Florida specific stormwater regulation, and
- How to conduct stormwater inspections.

For more information and a list of public classes, visit:

- www.fsesci.com, or
- www.FDEPstormwaterclass.com.

Become an FSESCI Instructor for your organization:

- www.fsesci.com/newinstructor/.

**FDEP Statewide Training
Coordinator:**

Jared Searcy

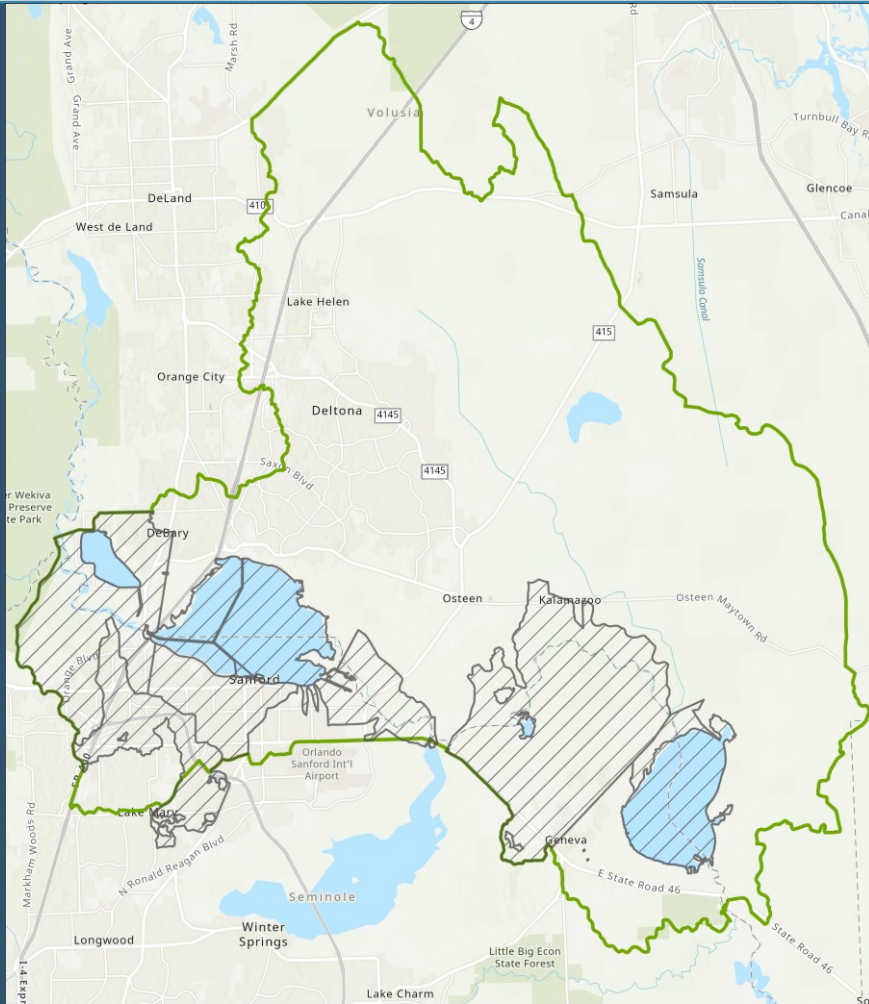
Jared.Searcy@floridadep.gov

850-245-8445



BACKGROUND

Lakes Harney, Monroe, MSJR, & Smith Canal BMAP



Lakes Harney and Monroe and MSJR BMAP and TMDLs

Map prepared by the Division of Environmental Assessment and Restoration. This map is not for legal decision making purposes.



— BMAP Boundary
▨ TMDL Boundaries

0 1.5 3 6 9 12 Miles

HAMO TMDL

- Adopted 2009 for Total Phosphorus (TP) and Total Nitrogen (TN) for lakes and river segments.
- Target concentrations are 0.07 mg/L TP and 1.18 mg/L TN.

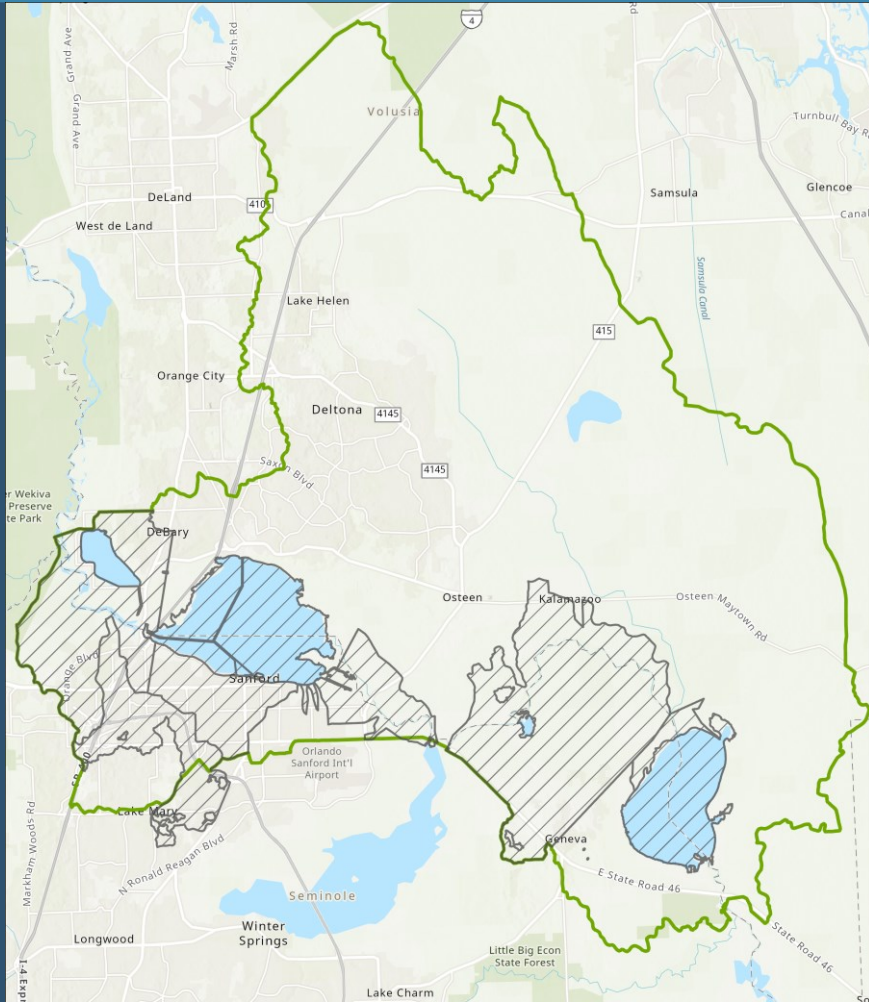
HAMO BMAP

- Adopted August 2012 to implement the TMDL.
- Total required reductions:
 - 17,710 lbs/yr TP.
 - 87,656 lbs/yr TN.



BACKGROUND

Lakes Harney, Monroe, MSJR, & Smith Canal BMAP



Lakes Harney and Monroe and MSJR BMAP and TMDLs

Map prepared by the Division of Environmental Assessment and Restoration. This map is not for legal decision making purposes.



— BMAP Boundary
— TMDL Boundaries

0 1.5 3 6 9 12 Miles

Stakeholders

City of DeBary

City of DeLand

City of Deltona

City of Lake Helen

City of Lake Mary

City of Orange City

City of Sanford

Seminole County

Volusia County

FDOT District 5

Turnpike Enterprise

FDACS



STAR

STATEWIDE ANNUAL REPORT

What is it and where can you find it?

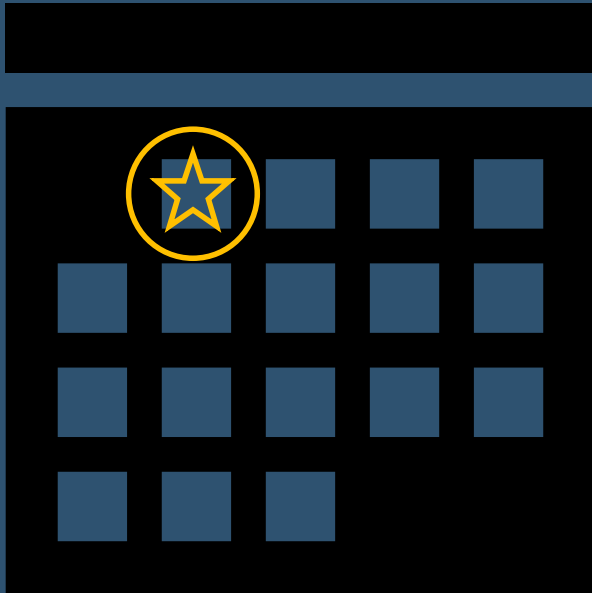
How was the information collected?



STAR

STATEWIDE ANNUAL REPORT

**Report submitted
July 1, 2023**



<https://floridadep.gov/STAR>

- What's in the STAR?
 - Summarizes accomplishments in the BMAPs statewide.
 - Reports on restoration projects and management strategies.
- STAR had a digital makeover!
 - Moved to visual-driven experience.
 - Data download available.



STAR

STATEWIDE ANNUAL REPORT

Florida Department of Environmental Protection Statewide Annual Report 2022 Basin Management Action Plans

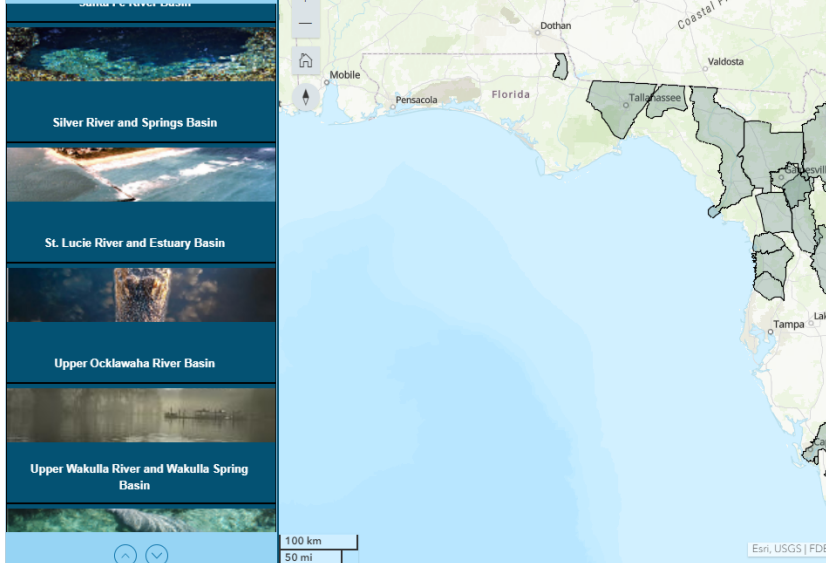


Introduction	Total Maximum Daily Loads	Basin Management Action Plans	Alternative Restoration Plans	Minimum Flows & Water Levels	Recovery & Prevention Strategies	Contacts & Project Data
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How to Use This Report	What Is the STAR?	Reductions Summary	What Are Nutrients?	What Are FIB?	What Are BMAP Projects?
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Nutrient BMAPs	Fecal Indicator Bacteria BMAPs	BMAP Projects	Project Table
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Sorted by Alphabetical Order Click on an image tile to the left or a watershed in the map to learn more about a BMAP



The Statewide Annual Report 2022

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



Total Maximum Daily Loads



Basin Management Action Plans



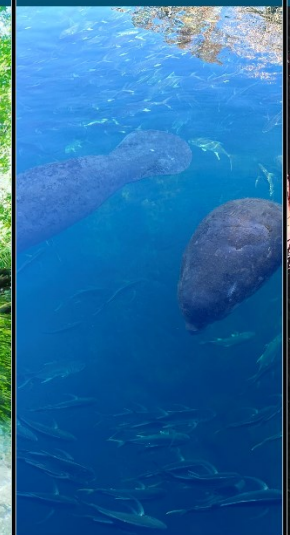
Alternative Restoration Plans



Minimum Flows and Water Levels



Recovery and Prevention Strategies



Contacts and Project Data



<https://floridadep.gov/STAR>





STAR

BMAP PORTAL IMPLEMENTATION

Timeliness

Portal kept everyone on same timeline, which keeps us on time.

Consistency

Real-time error messages allowed for more accurate information to be entered for projects.

Guided Data Entry

Drop-down menus allow for consistent categories and required information limits data gaps.

**ALL
reporting
stakeholders
used the
portal this
year.**



Program Debugging

Development errors took more time fixing than anticipated.

Communication

Coordinators needed to do more outreach to ensure stakeholder participation.



STAR UPDATES

Lakes Harney, Monroe, MSJR, & Smith Canal BMAP

Projects Through December 31, 2022

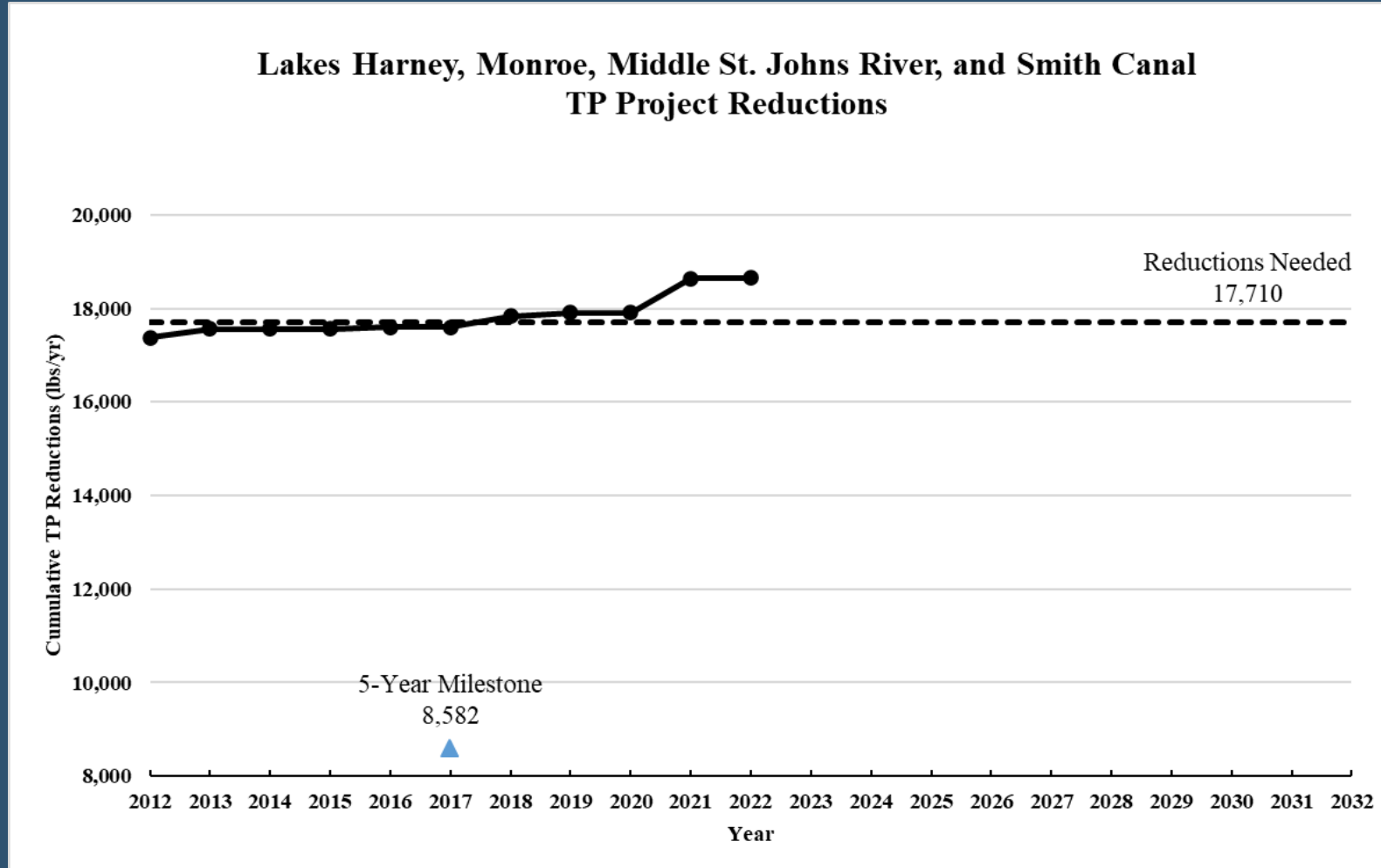
Lead Entity	Completed	Ongoing	Planned	Underway	Total
City of DeBary	2	4			6
City of DeLand		1			1
City of Deltona	8	2	3		13
City of Lake Helen	3	1			4
City of Lake Mary		2			2
City of Orange City		2			2
City of Sanford	5	2		1	8
FDACS	2	1			3
FDOT District 5	46	2			48
Seminole County	6	3		1	10
Turnpike Enterprise		2			2
Volusia County	6	4	2		12
Total	78	26	5	2	111



STAR UPDATES

Lakes Harney, Monroe, MSJR, & Smith Canal BMAP

Total Phosphorus Progress through December 31, 2022



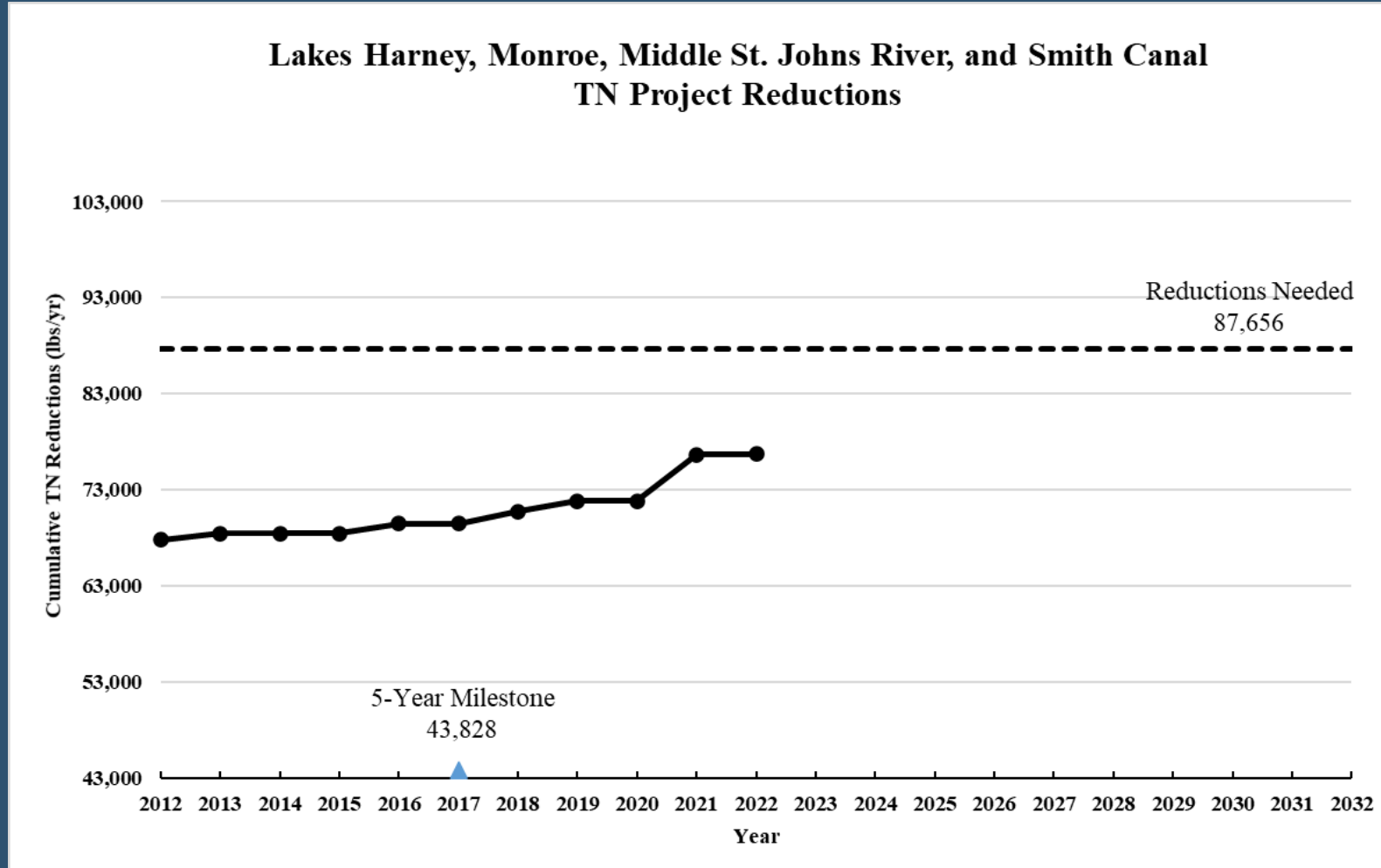
***Completed and
ongoing projects
only.***



STAR UPDATES

Lakes Harney, Monroe, MSJR, & Smith Canal BMAP

Total Nitrogen Progress through December 31, 2022



Completed and ongoing projects only.



STAR STORY MAPS

Lake Harney, Lake Monroe, Middle St. Johns River and Smith Canal Basin Management Action Plan

[Introduction](#)[Overview](#)[Location](#)[Water Quality](#)[Projects](#)[Progress](#)[Contacts & More Information](#)

Introduction

Welcome to the Lakes Harney and Monroe and Middle St. Johns River (MSJR) 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 as of the most recently published [Statewide Annual Report \(STAR\)](#). Please use the tabs above to navigate through this Story Map and learn more about the Lakes Harney and Monroe and MSJR BMAP. Last updated June 2023.

* The story map will display differently depending on the screen size and resolution being used. Story map best viewed in Chrome or Firefox.

Photo: Daniel Piraino [CC BY-NC-ND 2.0](#)

Additional information is
presented in the BMAP Story
Map.

[Lakes Harney, Monroe, Middle St. Johns River and Smith Canal BMAP Story Map](#)



WHAT'S NEXT?

- St. Johns River Modeling Efforts.
- Water Quality Trend/Hot Spot Analysis.
- SB 712: Clean Waterways Act Requirements.
- HB 1379: Environmental Protection.

<https://floridadep.gov/subscribe>





WHAT'S NEXT?

WATER QUALITY TREND/HOT SPOT ANALYSIS

- **Methodology** is being developed.
 - Started with process in South Florida BMAPs.
 - Tailored to fit individual BMAPs.
- **Goal:** Find areas for project prioritization and opportunities to monitor progress.
 - Identify areas for regional projects and greatest impacts.
 - Prioritize funding.
- Trend/hotspot analysis.

First Steps

Concentration 5-yr
Average



Compare to BMAP
Target
Concentration(s)*



Priority 1: Greater than twice the benchmark.

Priority 2: Greater than the benchmark
but less than twice benchmark value.

Priority 3: Equal to or less than the benchmark

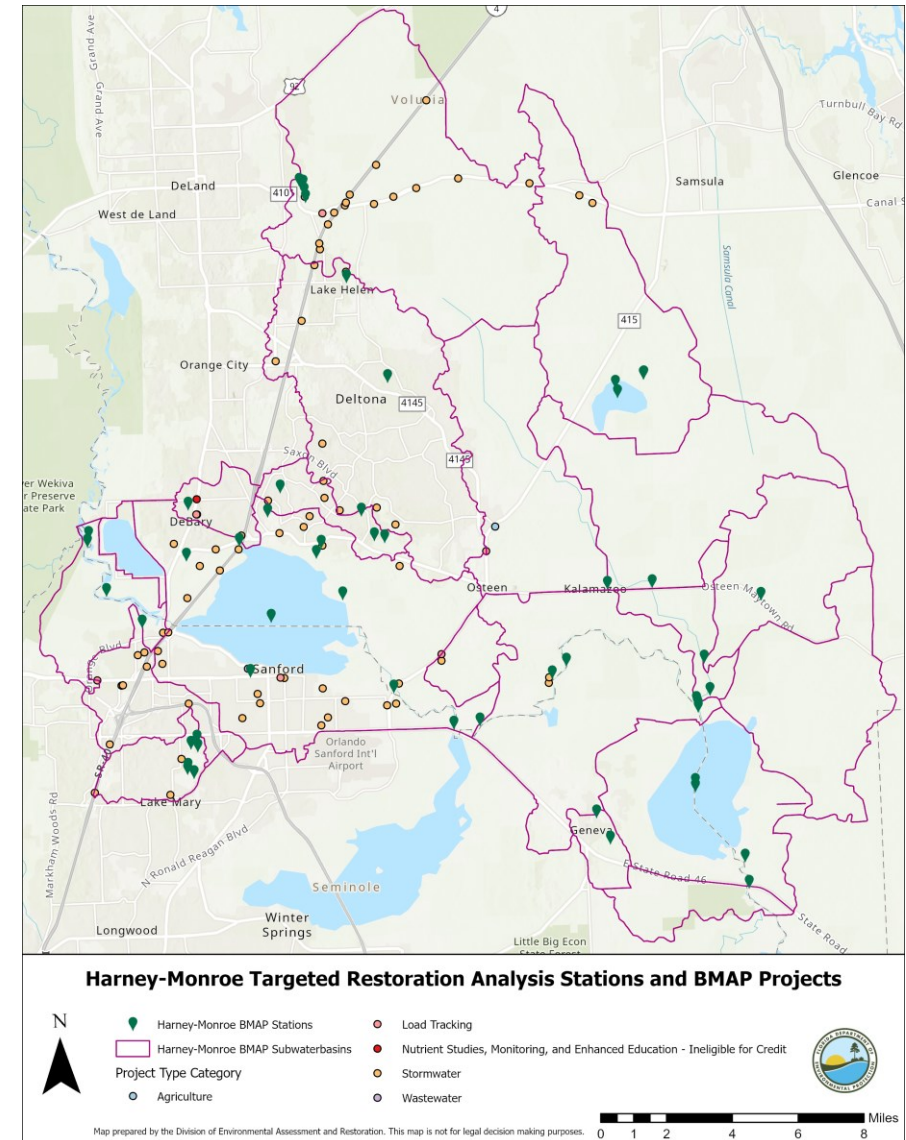
*Can use the Numeric Nutrient Criteria if a target concentration is not defined for the waterbody.



WHAT'S NEXT?

WATER QUALITY TREND/HOT SPOT ANALYSIS

- HAMO methodology is being developed.
 - BMAP divided into subbasins.
 - Filtered for stations with consistent sampling.
 - Subbasin averages compared to benchmark for priority ranking.
 - Subbasin averages compared to BMAP project locations.





CLEAN WATERWAYS ACT (SB 712)

Wastewater Treatment Plans and Onsite Sewage Treatment and Disposal System Remediation Plans

Upcoming deadlines:

- Draft plans must be submitted to the department by
 - **February 1, 2024.**
- Final plans must be submitted to the department by
 - **August 1, 2024.**
- These plans must be incorporated into the BMAPs by
 - **July 1, 2025.**

[June 26th Informational Webinar Meeting Materials](#)

[Clean Waterways Act Requirements for Wastewater & Onsite Sewage Treatment and Disposal Systems Plans in Nutrient BMAPs | Florida Department of Environmental Protection](#)



WASTEWATER TREATMENT PLANS

Summary of expected elements of the Wastewater Treatment Plans:

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



OSTDS REMEDIATION PLANS

Summary of expected elements of the OSTDS Remediation Plans:

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



HB 1379: ENVIRONMENTAL PROTECTION

**Enhances Water Quality
Protection in the Indian River
Lagoon.**

**Strengthens Water Quality
Protections and Basin
Management Action Plans
(BMAPs).**

**Improves Local Government
Long-Term Comprehensive
Planning.**

**Expands Funding Opportunities
to Address Water Quality
Impairments.**



IMPROVING COMPREHENSIVE PLANNING

BMAP Projects:

- Requires local governments to include BMAP projects in their comprehensive plans so that these projects can be prioritized to achieve restoration benefits.

Sanitary Sewer:

- Except for rural areas of opportunity (RAO), requires local governments to assess the feasibility of providing sanitary sewer for developments of 50 lots or more, on a 10-year planning horizon.
 - Deadline for updates with new sanitary sewer requirements is July 1, 2024.

Wastewater Facility Upgrades:

- Requires prioritization of advanced wastewater treatment (AWT) in comprehensive plans.





STRENGTHENING BMAPS

List of Identified Projects:

- Requires a list of projects and strategies that will achieve the 5-year implementation milestones to meet total maximum daily loads (TMDLs).
- Requires each identified project to include an estimated amount of nutrient reduction, a planning-level cost estimate and an estimated date of completion.
- Requires DEP to increase coordination with local governments, water management districts and other stakeholders to identify projects.

Agricultural Nonpoint Sources:

- Where agricultural nonpoint sources contribute at least 20 percent of nonpoint source nutrient discharges, requires a list of cooperative agricultural regional water quality improvement element(s) submitted by the Department of Agriculture and Consumer Services which, in combination with the best management practices, additional measures, and other management strategies will achieve the needed pollutant load reductions established for agricultural nonpoint sources.





IMPROVING DOMESTIC WASTEWATER

Wastewater Facility Upgrades:

- By 2033 – requires all wastewater facilities discharging to an impaired water to upgrade to Advanced Wastewater Treatment (AWT).
- After July 1, 2023 – requires any facility discharging to a waterbody impaired for nutrients or subject to a BMAP or reasonable assurance plan (RAP) area to upgrade to AWT within 10 years.

More Stringent Wastewater Treatment Standards:

- Authorizes DEP to require a more stringent treatment standard (greater than AWT) if required to meet the total maximum daily load (TMDL) within a BMAP.

Onsite Sewage Treatment Disposal Systems (OSTDS):

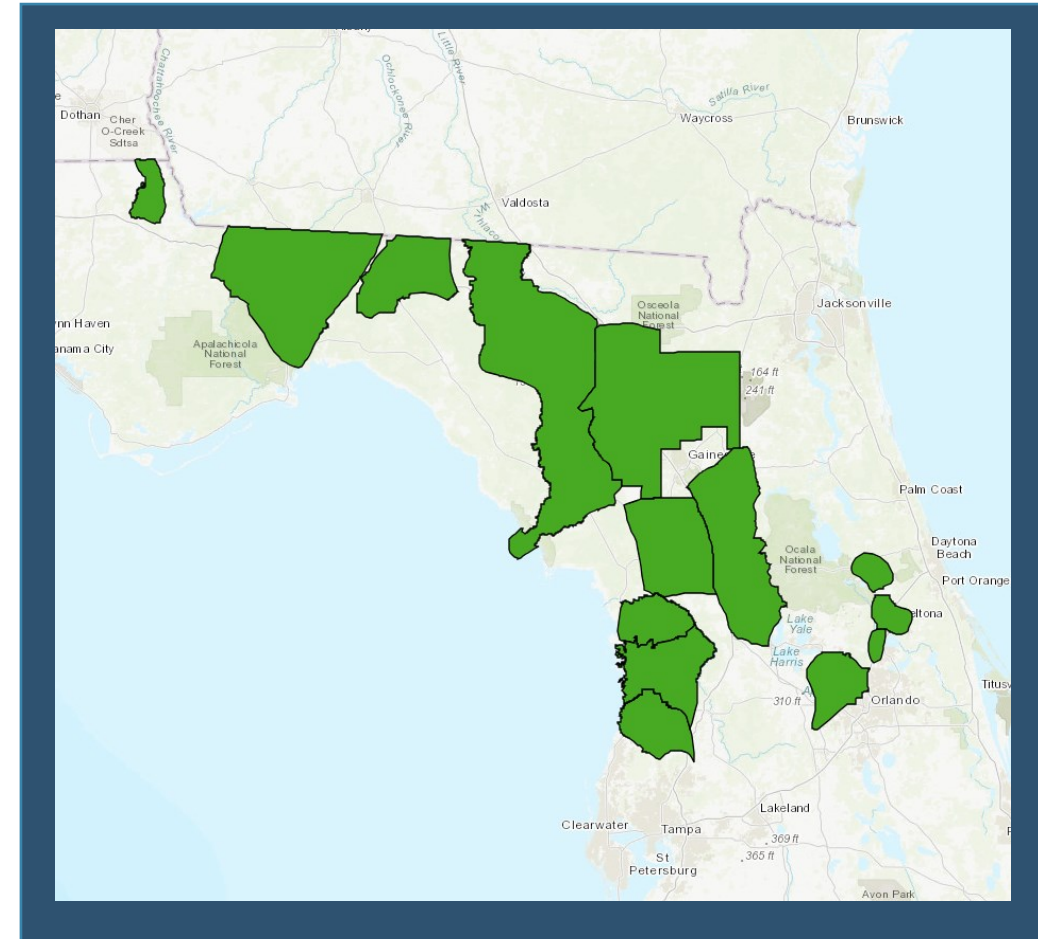
- Requires new OSTDS on lots 1 acre or less within a BMAP to connect to central sewer if available, or if unavailable, to upgrade to an enhanced nutrient-reducing system or other wastewater system that achieves 65 percent reduction.



ENHANCED PROTECTIONS FOR OUTSTANDING FLORIDA SPRINGS

Expanding current prohibitions in priority focus areas to entire Outstanding Florida Spring (OFS) BMAP areas:

- New conventional OSTDS on lots one acre or less - Where connection to a sewer system is not available, all new OSTDS on lots one acre or less must be enhanced nutrient-reducing systems (at least 65% nitrogen reduction).
- New domestic wastewater disposal facilities with permitted capacities of 100,000 gallons per day or more unless they meet AWT standards.
- New HAZMAT disposal facilities.
- Land application of Class A or B biosolids not in accordance with a DEP-approved nutrient management plan.
- New agricultural operations not implementing best management practices (BMPs).





THANK YOU

Evelyn Becerra

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection

Contact Information:

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Evelyn.Becerra@FloridaDEP.gov



Harney Monroe BMAP Update

Tiffany Trent, St John's River Water Management District



St. Johns River
Water Management District

Water Quality Update



- Focusing on 3 analytes: TN, TP, and Chl-a
- Water quality data obtained from St Johns River Water Management database
- Both Lakes had samples in every quarter, so arithmetic means were used
- Harmful Algal Bloom Data provided by DEP HAB website

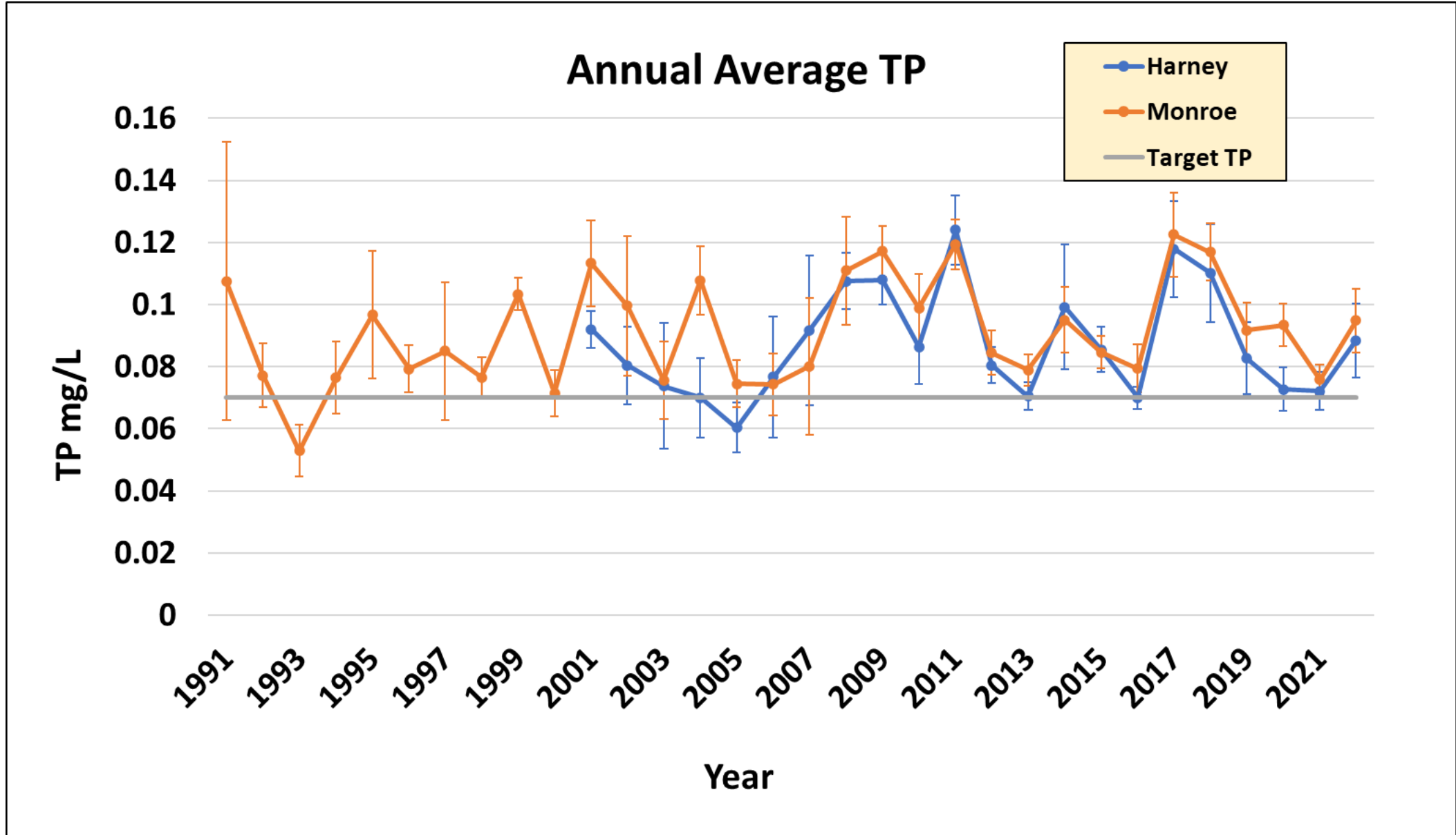


Analyte Targets

Lake	TN Target Concentration (mg/L)	2022 Mean (mg/L)	TP Target Concentration (mg/L)	2022 Mean (mg/L)	Chl-a Target Concentration (µg/L)	2022 Mean (µg/L)
Harney	1.18	1.27	0.07	0.088	10.75	8.63 
Monroe	1.18	1.36	0.07	0.094	13.2	17.81

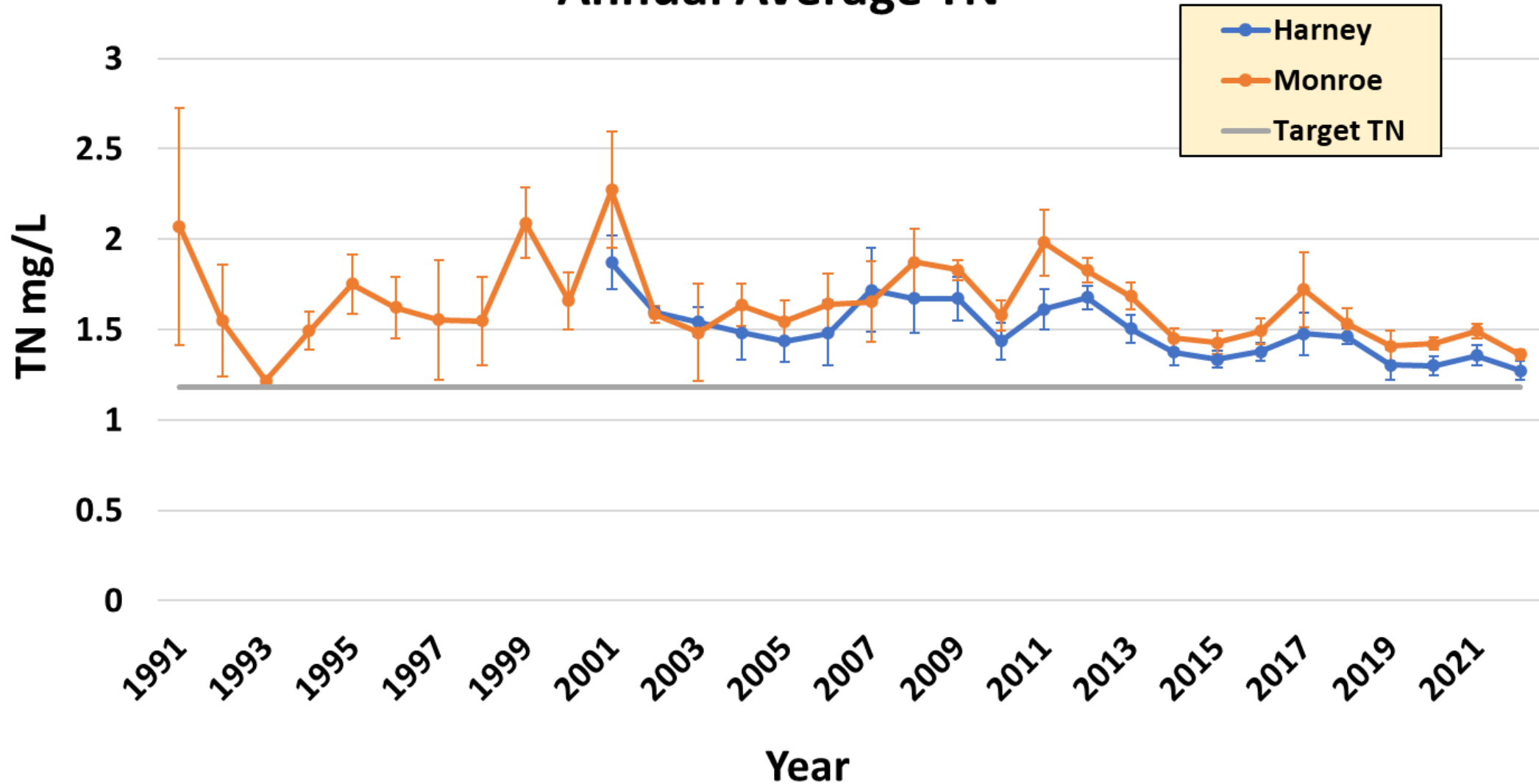


Total Phosphorus

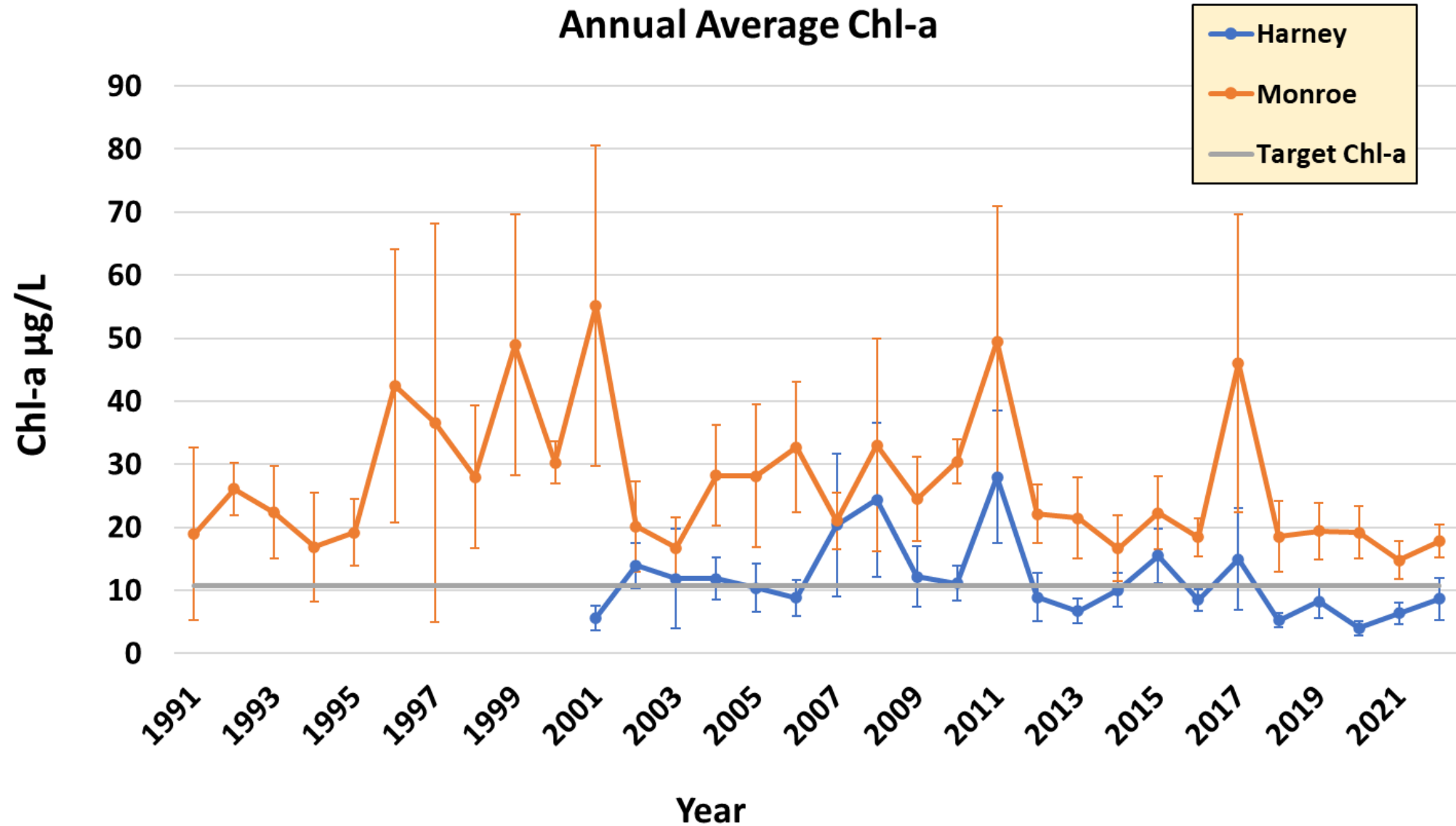


Total Nitrogen

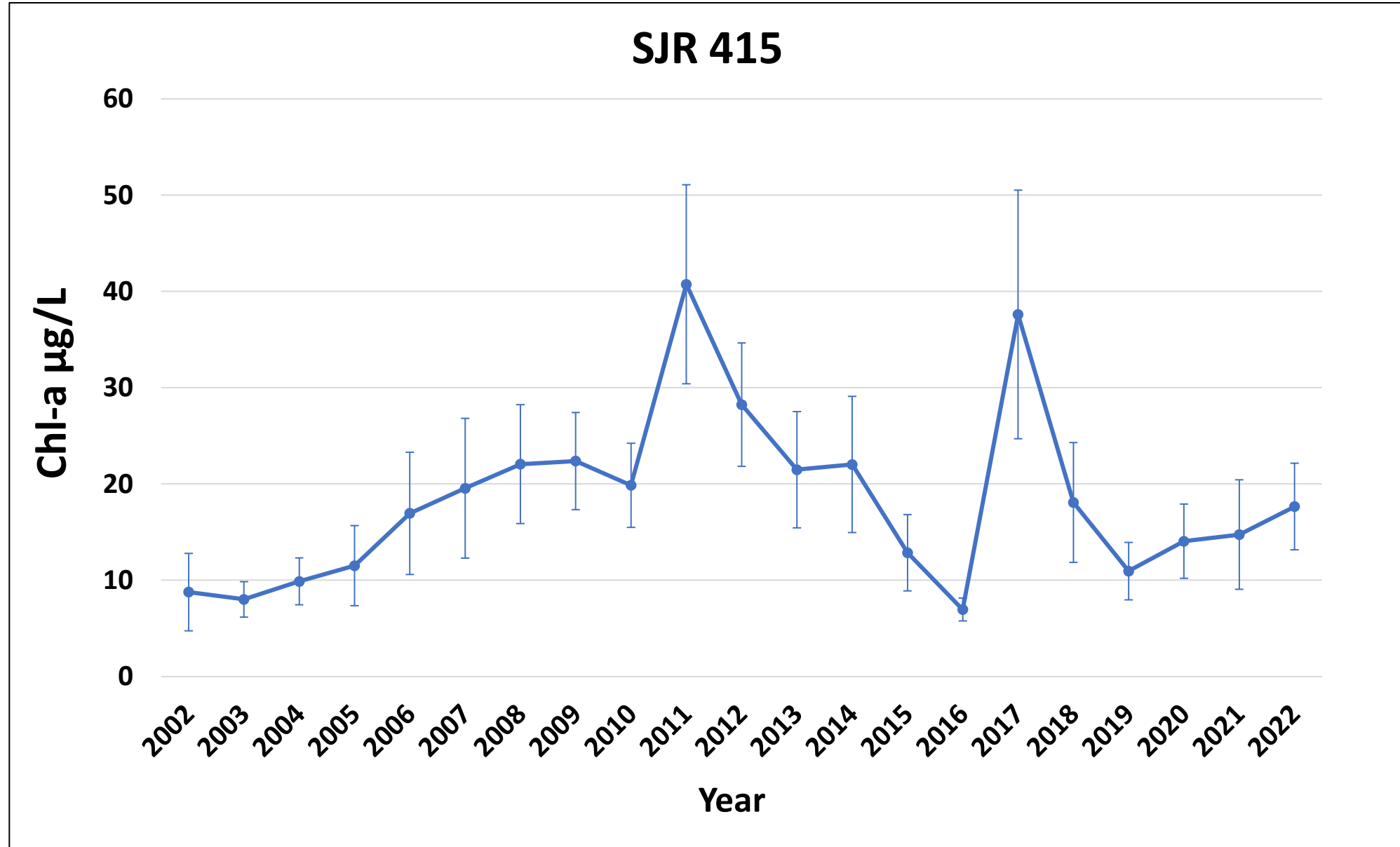
Annual Average TN



Chlorophyll-a



Chl-a Inflow to Monroe at 415



HABs on Monroe and Harney



- No HAB samples were collected on Harney in 2022.
- A total of 17 samples were collected on Monroe, with only 2 samples resulting in toxin detection.
- Both samples contained microcystin under $1\text{ }\mu\text{g/L}$ and well below the EPA limit of $15\text{ }\mu\text{g/L}$.



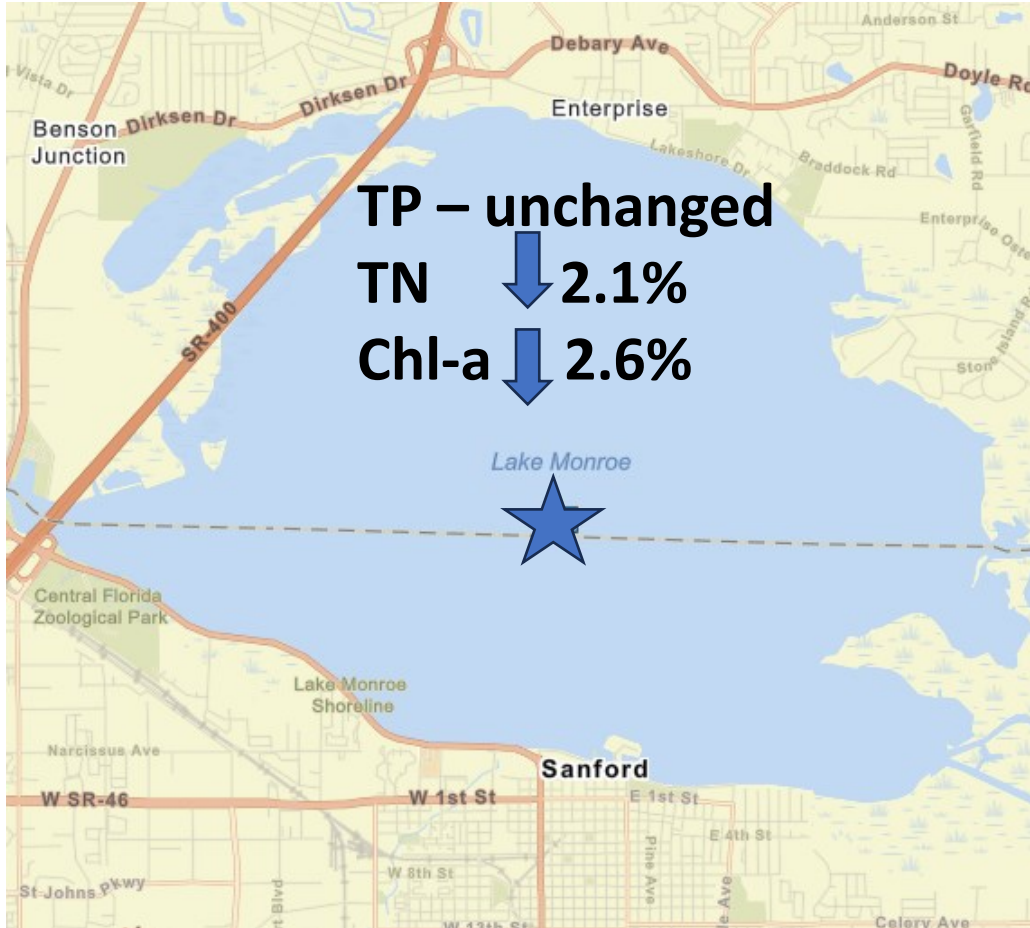
Water Quality Summary

- Harney was the only lake that met a TMDL target in 2022 (Chl-a). While other TMDL targets were not met, all have shown a decline over the last 5 years.
- Two algal bloom collections contained Microcystin, but neither were above 1 µg/L and were well below the EPA recreation limit
- Different genera dominated algal bloom samples at different dates. Most samples were mixed with no clear dominant cyanobacteria.

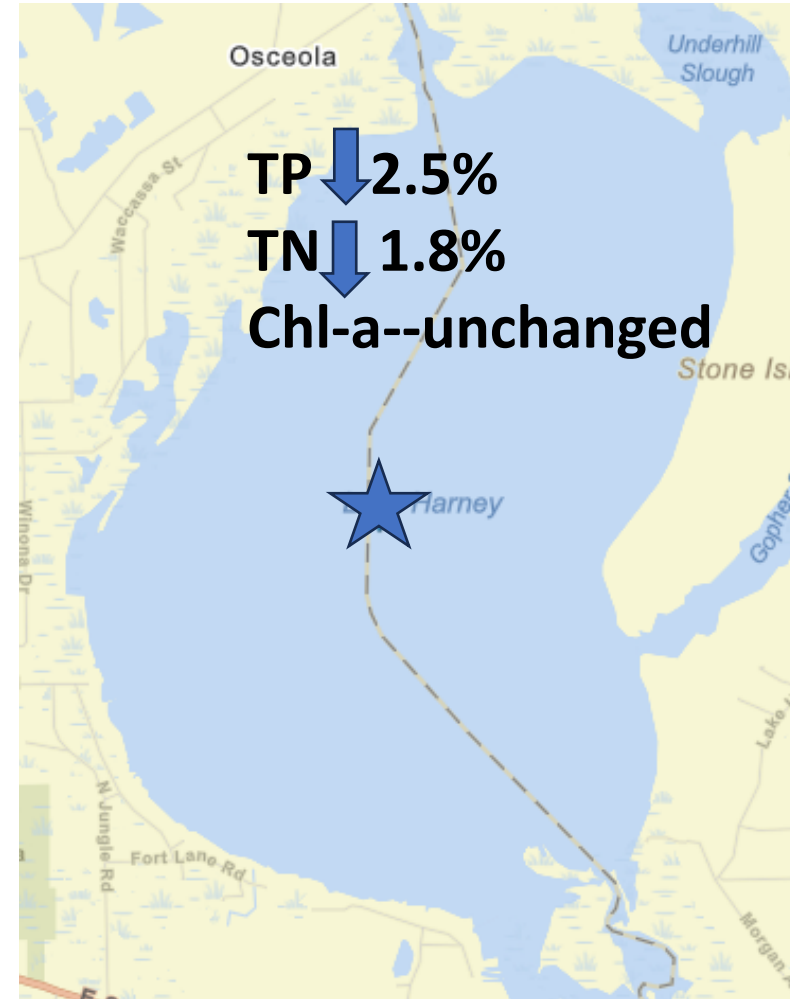


Water Quality Summary

Monroe



Harney



Questions?



St. Johns River
Water Management District

Photo credit: https://www.unf.edu/floridahistoryonline/Bartram/images/aerials/LakeMonroe006_full.jpg



Lake Harney, Lake Monroe, Middle St. Johns River BMAP Annual Meeting

August 3, 2023

Cori Hermle

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



Overview

- Agricultural Best Management Practices (BMP)
- FDACS Role in BMP Implementation
- Enrollments within the Lakes Harney & Monroe Basins
 - Unenrolled Agricultural Lands Classification
- BMP Implementation Verification (IVs)
- Producer Outreach
- Legislative Report



Office of Agricultural Water Policy (OAWP) Staff Update

- **N. West Gregory;** Director West.Gregory@fdacs.gov
- **Bret Prater;** Asst. Director Bret.Prater@fdacs.gov
- **Angela Chelette;** Chief of Policy Planning and Coordination (PPC) Section Angela.Chelette@fdacs.gov
- **Yesenia Escibano;** Environmental Administrator-BMAPs Yesenia.Escibano@fdacs.gov
- **Cori Hermle;** Environmental Consultant, SJRWMD liaison Cori.Hermle@fdacs.gov



Agricultural Best Management Practices

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



Benefits of Agricultural Best Management Practices

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

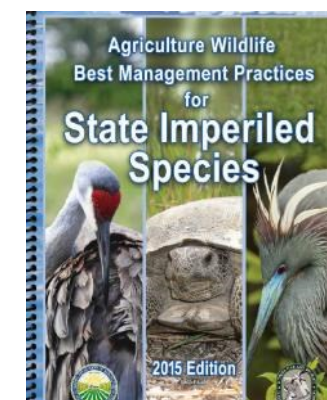
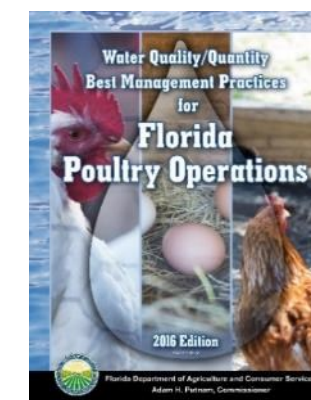
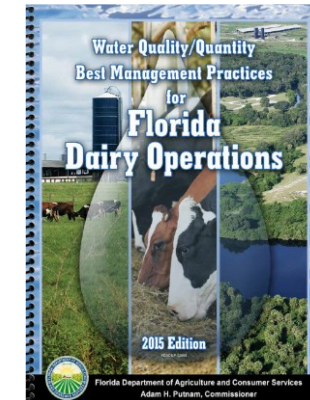
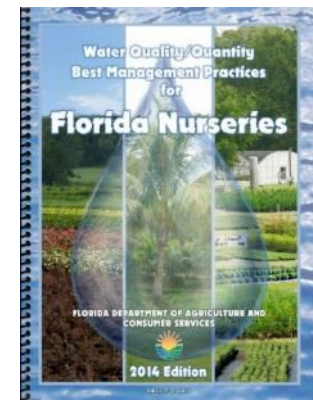
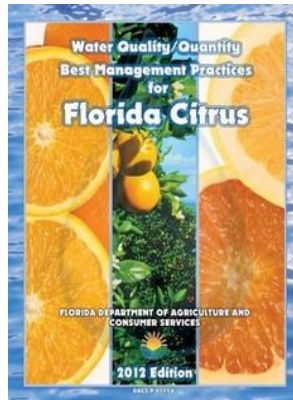
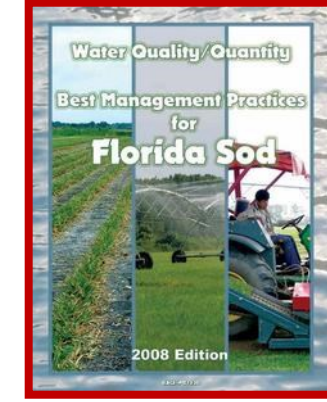
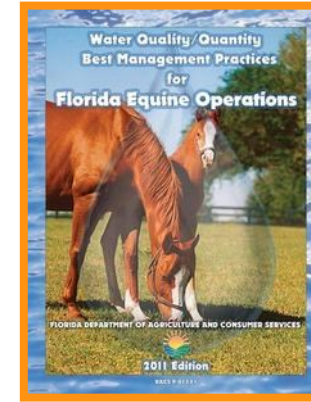
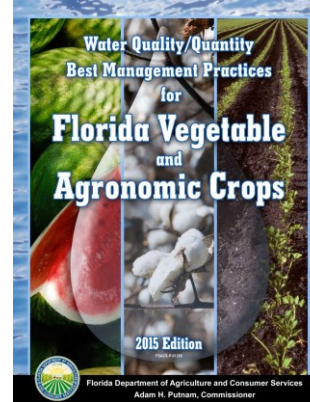
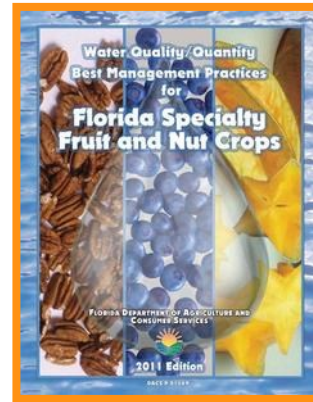
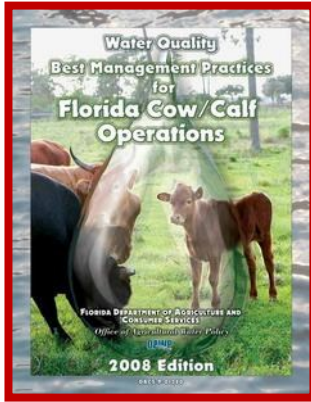


FDACS Role in BMP Implementation

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



Adopted BMP Manuals



Producer Options in BMAP Areas

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



Enrollments within the Harney Monroe BMAP

- 43% of all agricultural acres are enrolled in the BMP program
 - Total Ag Acres = 28,723
 - Enrolled Ag Acres = 12,398
- 23% of all irrigated agricultural acres are enrolled in the BMP program
 - Total Irrigated Ag Acres = 1,022
 - Enrolled Irrigated Ag Acres = 234
- Majority of enrollments are Cow/Calf



BMP enrollment as of Dec 2022 and the 9th Florida Statewide Agricultural Irrigation Demand ([FSAID](#)) Geodatabase

Agricultural Acres Enrolled within Harney Monroe BMAP

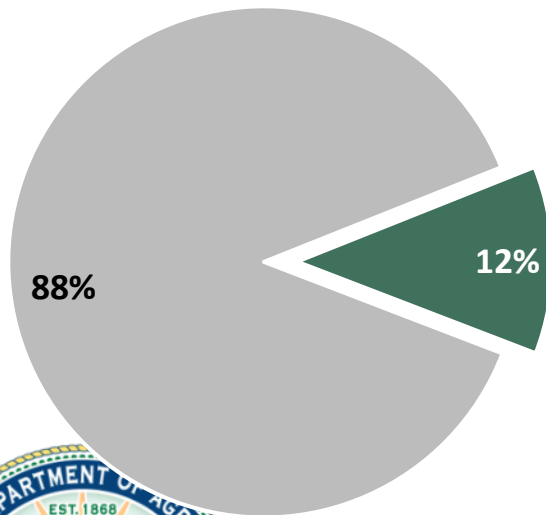
BMP Manual	Acres
Citrus	121
Cow/Calf	11,944
Equine	7
Multiple Commodities	40
Nursery	283
Row/Field Crop	3
Total	12,398



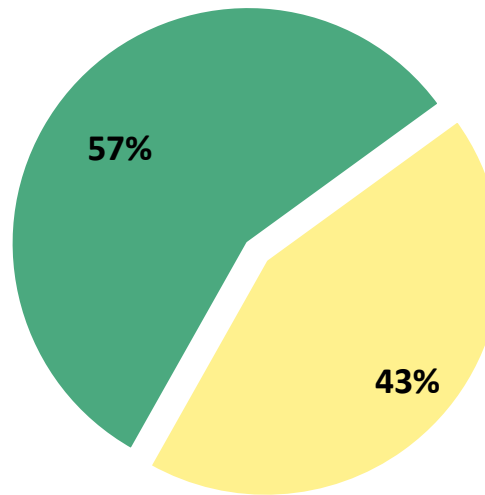
Agricultural Lands within Harney Monroe BMAP

Non-Agricultural Acres	Agricultural Acres	Enrolled Agricultural Acres	Remaining Agricultural Acres	Unlikely Enrollable Acres	Potentially Enrollable Acres
213,204	28,723	12,398	16,325*	5,325	10,786

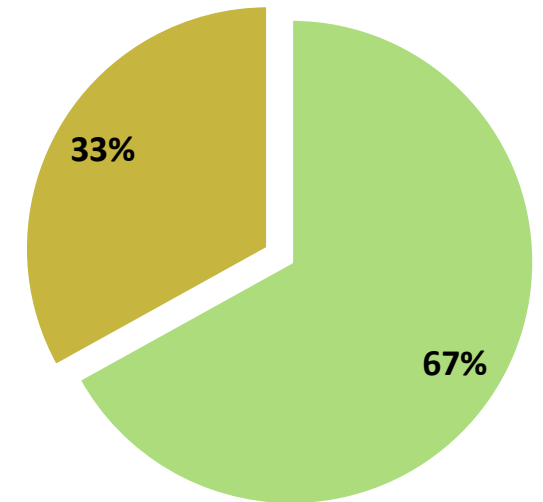
Non-Ag Acres vs.
Ag Acres



Enrolled Ag Acres vs.
Remaining Ag Acres



Unlikely Enrollable Acres vs.
Potentially Enrollable Acres

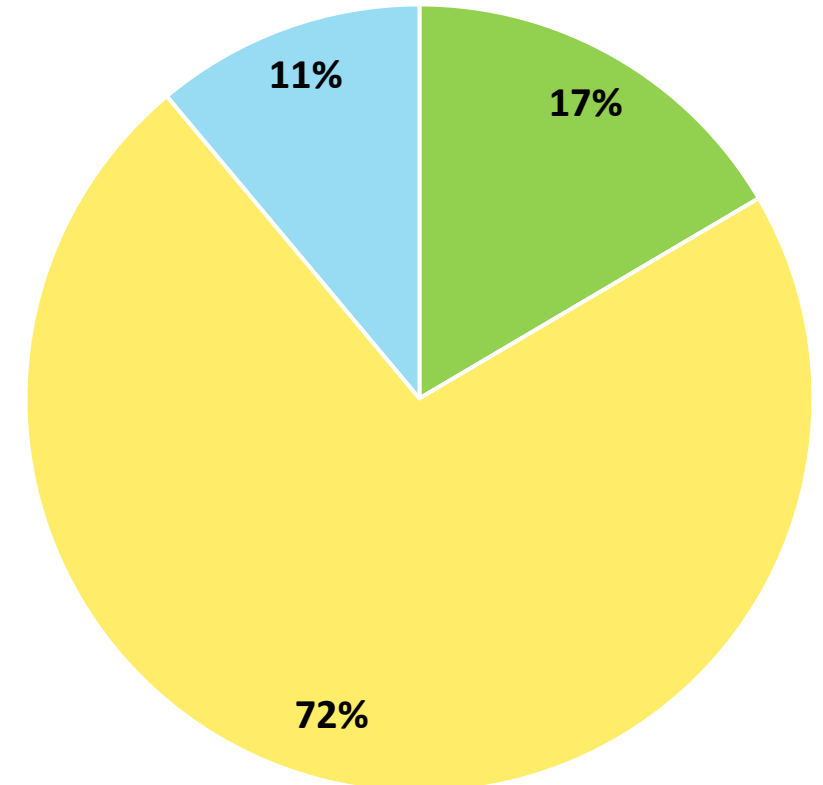


* This value includes ~200 acres within state-owned properties that are not included in the 'unlikely enrollable' or 'potentially enrollable' acres categories

Unlikely Enrollable Agricultural Lands within Harney Monroe BMAP

Category	Acres
State Lands	214
Timberland and Aquaculture *	880*
Not Agriculture [e.g., DOR Use Code 70-99 (industrial or institutional use, acreage not zoned agricultural), Non-Ag Entity]	3,855
Not Enrollable [e.g., Missing Parcel Information, Slivers, Tribal Lands]	590

Remaining Acreage:
Unlikely Ag Breakdown



Unlikely Enrollable Acres: 5,325

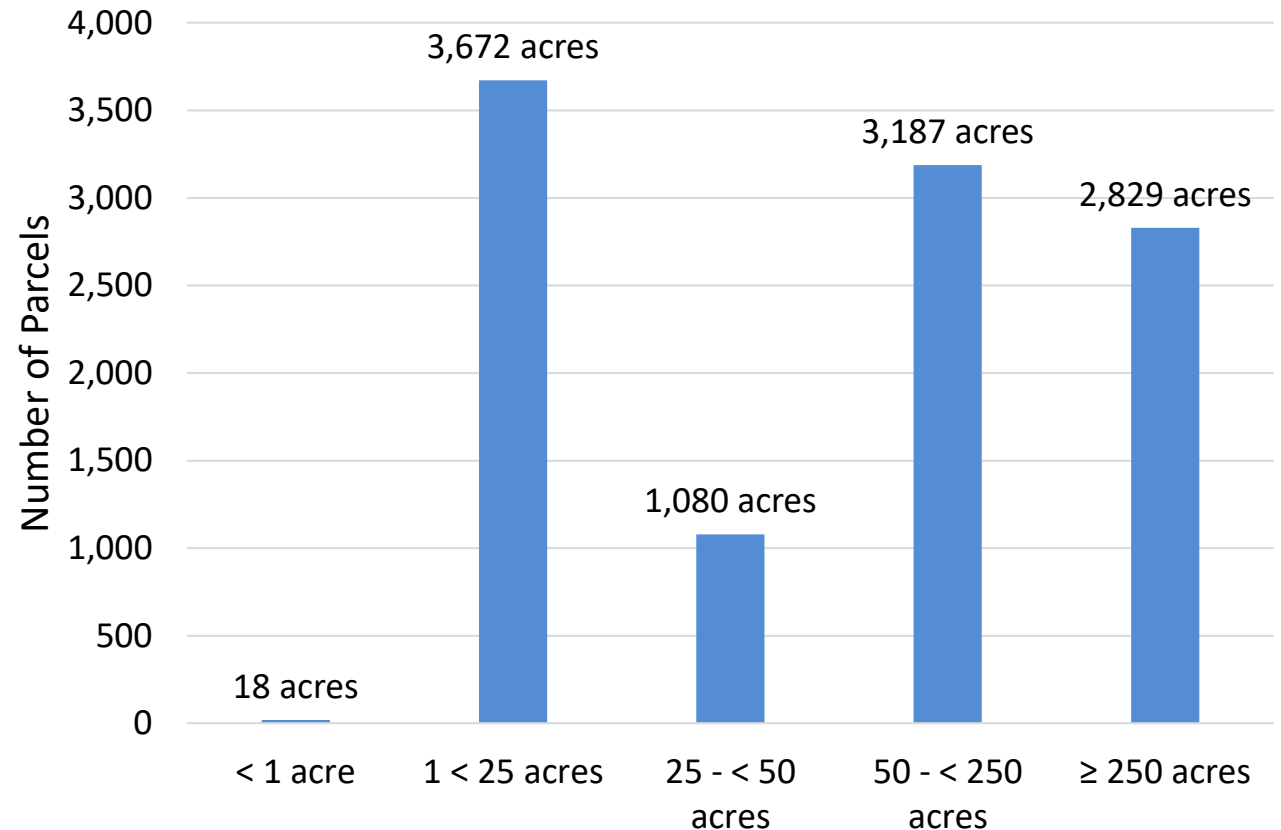
** May be eligible to be enrolled under the FDACS Florida Forest Service's Silviculture BMP Manual or the FDACS Division of Aquaculture's Aquaculture BMP manual.*



Potentially Enrollable Agricultural Lands within Harney Monroe BMAP

Ag Acres within Parcel	Parcel Count	Total Ag Acres
< 1	31	18
1 - < 25	515	3,672
25 - < 50	31	1,080
50 - < 250	32	3,187
≥ 250	7	2,829

Potentially Enrollable Acres: 10,786



Distribution of Agricultural Acres within Each Parcel



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
 - 100% completed
 - Requires collection, review, and retention of N and P fertilizer records
 - Nutrient Application Record Form (NARF)
 - FDACS reports total N and P applications to FDEP for utilization in BMAP assessments

** IVs completed as of Dec 31, 2022



Producer Outreach: Coming Soon....

- BMP Program Videos

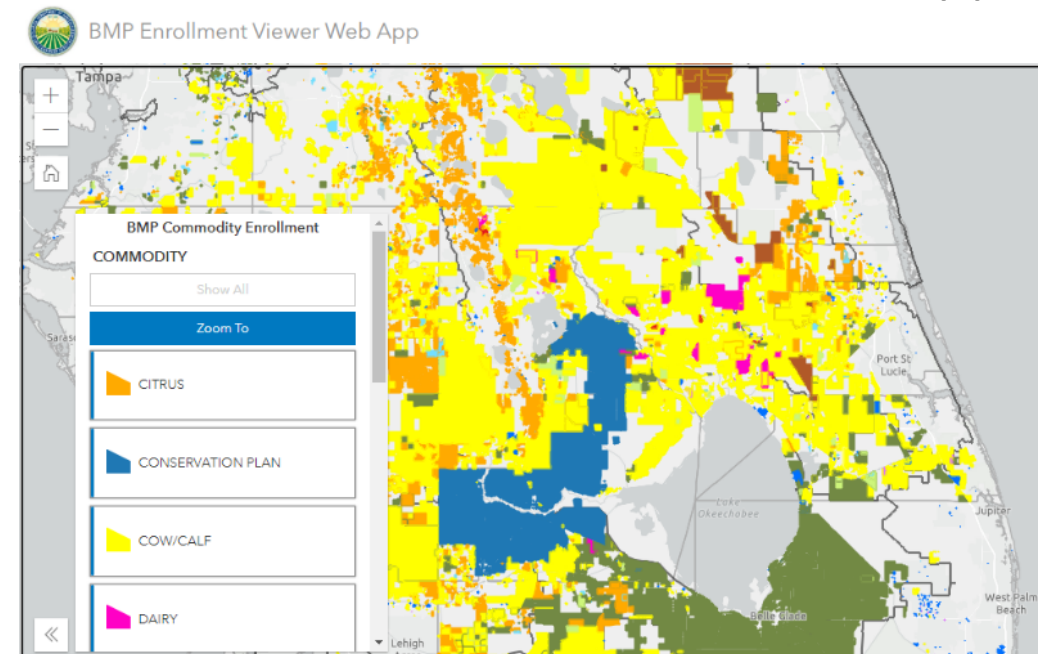
[Agricultural Water Policy - About BMPs – YouTube](#)



- New Online Features

- Are you in a BMAP?

- BMP Enrollment Viewer Web App



[Agricultural Best Management Practices / Water / Agriculture Industry / Home - Florida Department of Agriculture & Consumer Services \(fdacs.gov\)](#)

2023 FDACS Legislative Report

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



Status of Implementation of Agricultural Nonpoint Source Best Management Practices

July 1, 2022

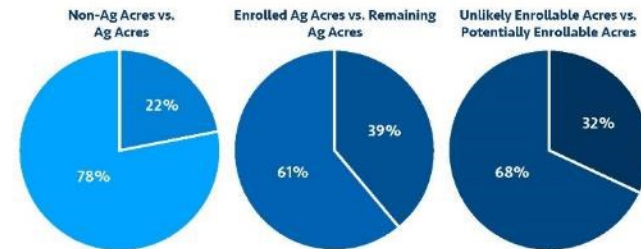
Report to the Governor, the President of the Senate, and the Speaker of the House
Pursuant to Section 403.0675(2), F.S.

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	Remaining Agricultural Acres*	Unlikely Enrollable Acres	Potentially Enrollable Acres
26,723,359	7,596,641	4,628,627	2,968,014	884,291	1,851,559



Enrollment and IV Site Summary	2021	2021 Percent Enrolled
Total agricultural acres in the state	7,596,641	61%
Total agricultural acres enrolled	4,628,627	
Total irrigated acres	1,862,717	82%
Total irrigated acres enrolled	1,526,689	
Number of NOIs statewide	13,269	
Completed IV site visits	3,938	

Potentially Enrollable Parcel Distribution by Agricultural Acreage

Agricultural Acres Within Parcel	Number of Parcels	Total Agricultural Acres
< 1	2,984	1,610
1 - 25	52,005	468,885
25 - < 50	8,580	298,416
50 - < 250	6,187	596,906
≥ 250	971	485,742
TOTAL	70,727	1,851,559

Agricultural Acres Enrolled

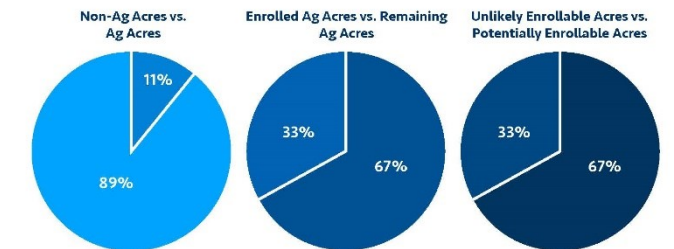
BMP Manual	Acres
Citrus	445,006
Conservation Plan	182,280
Cow/Calf	1,619,597
Dairy	13,227
Equine	20,071
Fruit & Nut	16,615
Lake/Oleander/PP	2,476
Multiple Commodities	1,172,097
Nursery	32,266
Poultry	1,024
Row/Field Crops	1,080,521
Sod	26,321
Wildlife	13,346
TOTAL	4,628,627

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

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Status of Implementation of Agricultural Best Management Practices (BMPs) Lake Harney, Lake Monroe, Middle St. Johns River & Smith Canal BMAP

Non-Agricultural Acres	Agricultural Acres	Enrolled Agricultural Acres	Remaining Agricultural Acres*	Unlikely Enrollable Acres	Potentially Enrollable Acres
221,868	26,060	8,482	17,578	5,527	11,335



Enrollment and IV Site Summary	2021	2021 Percent Enrolled
Total agricultural acres in the BMAP	26,060	33%
Total agricultural acres enrolled	8,482	
Total irrigated acres	1,647	19%
Total irrigated acres enrolled	321	
Number of NOIs within BMAP	31	
Completed IV site visits	7	

Potentially Enrollable Parcel Distribution by Agricultural Acreage

Agricultural Acres Within Parcel	Number of Parcels	Total Agricultural Acres
< 1	32	18
1 - 25	523	3,610
25 - < 50	27	934
50 - < 250	39	3,654
≥ 250	7	3,119
TOTAL	628	11,335

Agricultural Acres Enrolled

BMP Manual	Acres
Citrus	185
Cow/Calf	7,987
Equine	7
Multiple Commodities	3
Nursery	297
Row/Field Crop	3
TOTAL	8,482

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

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

Thank You!

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

Cori Hermle, Environmental Consultant
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Unenrolled Agricultural Producer Enforcement

David Frady, Ph.D.
Program Administrator

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection



Clean Waterways Act

- The Clean Waterways Act (SB 712) was signed into law by Governor DeSantis in 2020
 - The law requires a wide range of water quality protection provisions aimed at minimizing impacts from known nutrient pollution sources
 - Agricultural landowners and producers within a Basin management Action Plan (BMAP) must enroll in one of two programs:
 - FDACS' Best Management Practices (BMP) program
 - Water Quality Monitoring approved by DEP
- The law also requires FDACS to:
 - conduct on-site implementation verification (IV) site visits on properties enrolled in the BMP program every two years
 - Collect fertilizer data via the Nutrient Application Record Form (NARF)
 - **identify agricultural parcels within a BMAP that are out of compliance and refer them to DEP for enforcement**



Unenrolled Agricultural Producer Enforcement

FDACS Identifies non-compliant producers

- The Florida Department of Agriculture and Consumer Services (FDACS) uses various database to identify parcels within a BMAP that may be agricultural operations

FDACS refers non-compliant producers to FDEP for enforcement

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

FDEP conducts outreach and engagement to bring producers into compliance

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

FDEP Initiates enforcement action

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



Outreach and Engagement Has Been Successful

- DEP takes immediate action when a producer is referred for enforcement
 - More than 98% of the unenrolled agricultural parcels identified by FDACS and referred to FDEP have been brought into compliance
- There are no parcels greater than 100 acres out of compliance and the majority are smaller than 10 acres
- FDEP is engaged in an ongoing campaign to educate landowners of their requirements and bring them into compliance quickly through additional outreach and on-site visits



THANK YOU

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Water Restoration Assistance Grant Funding

Zach Easton

Division of Water Restoration Assistance /
Springs and Watershed Restoration Program
Florida Department of Environmental Protection

Harney-Monroe BMAP Annual Meeting| 8.3.2023



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



About The Springs Grant

Annual state appropriation. Typically \$50m

Eligible projects are land acquisition and capital projects that protect the quality and/or quantity of water from springs:

- **Agricultural Best Management Practices**
- **Wastewater**
- **Water Conservation**
- **Hydrologic Restoration**
- **Stormwater**
- **Other types of Water Quality and Quantity**

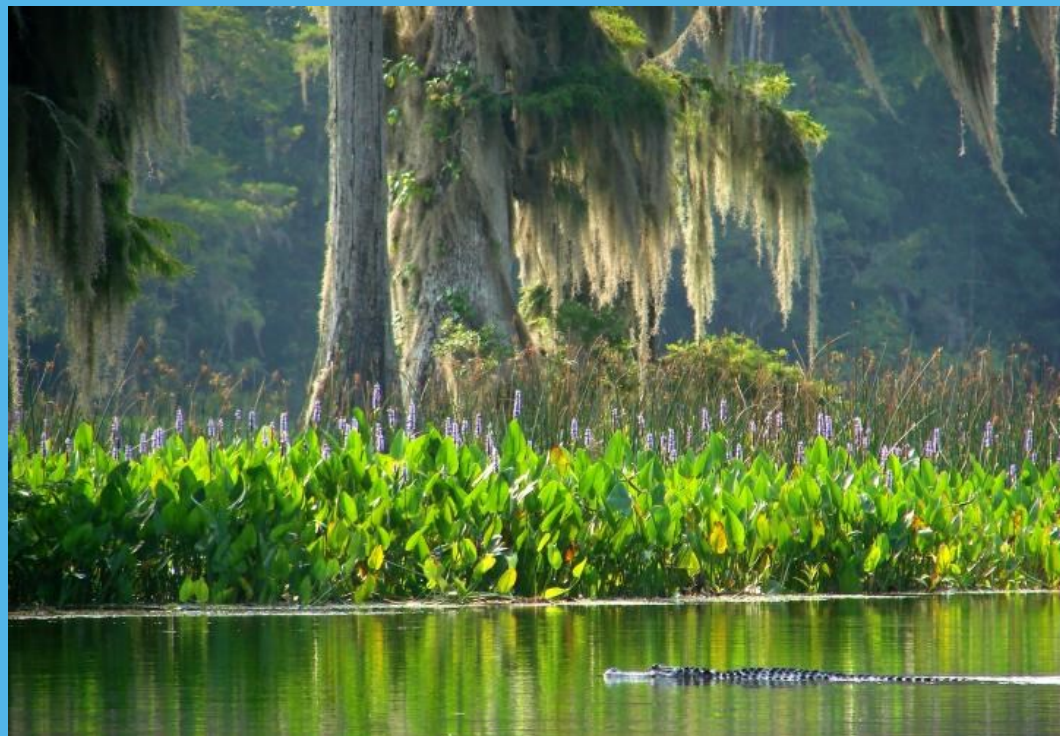


FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Springs Grant Submittal Process

Project proposals are submitted to the corresponding jurisdictional Water Management District

- WMDs begin solicitation in late fall to early winter
- Projects are evaluated by the WMD and reviewed by the Governing Board at a public meeting
- Project proposals sent to DEP in May





FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION



Springs Grant Evaluation

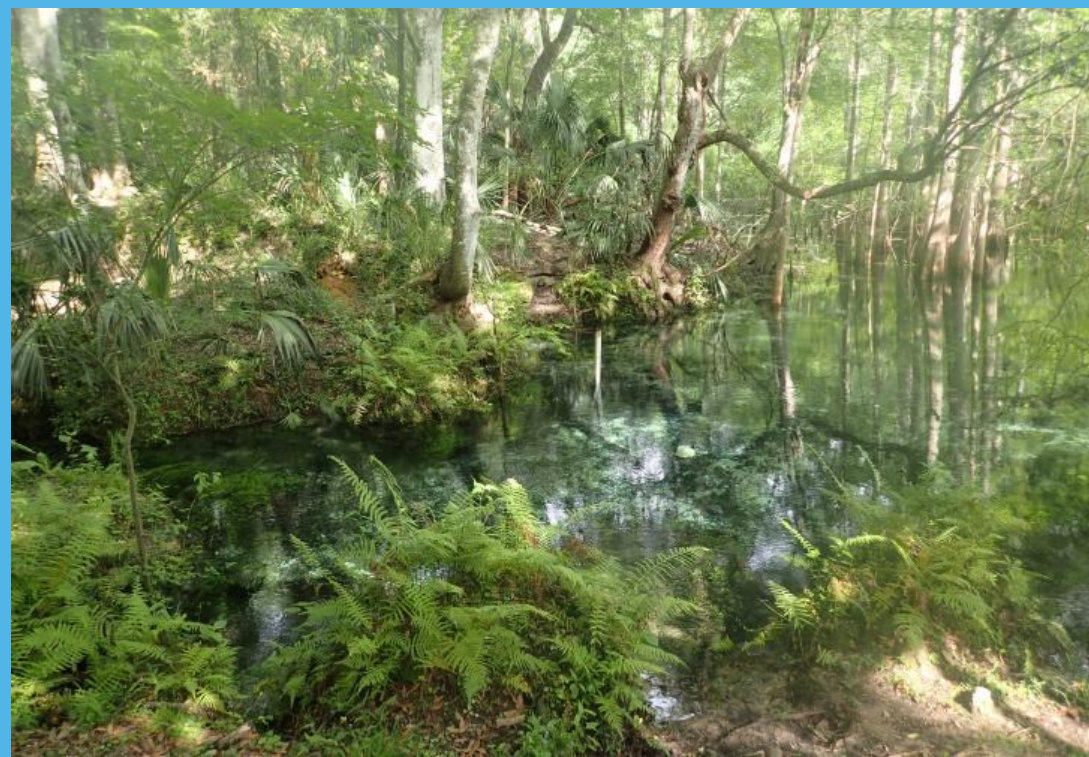
- DEP consolidates list of proposed projects and posts for public comment
- DEP will review and make recommendations
- Factors considered in evaluating projects:
 - Nutrient reductions
 - Water savings
 - Cost sharing
 - Readiness to proceed
 - Whether project is in BMAP area
 - Whether project impacts spring that has an MFL
- Springs awards were announced in early December 2022



FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

Water Quality Improvement Grant

- Established under 403.0673, F.S. (Formerly the Wastewater Grant)
- To be eligible for funding, a project must improve the quality of waters that:
 - Are not attaining nutrient or nutrient-related standards;
 - Have an established total maximum daily load; or,
 - Are located within a BMAP or a reasonable assurance plan area adopted by final order, an accepted alternative restoration plan area, or located within a rural area of opportunity.
- Project proposals may be submitted through the Protecting Florida Together portal (open through August)





Water Quality Improvement Grant

Eligible projects include:

- Septic to sewer projects
- Wastewater treatment facility improvements that result in improvements to surface water or groundwater quality
- Stormwater treatment projects
- Projects that qualify as a cooperative agricultural regional water quality improvement element as part of a BMAP
- Where central sewerage is not available, retrofitting OSTDS to upgrade such systems to enhanced nutrient-reducing onsite sewage treatment and disposal systems or other equivalent wastewater system that achieves 65% reduction in total nitrogen
- BMAP projects



NONPOINT SOURCE MANAGEMENT: EPA 319(H) NONPOINT SOURCE GRANT

Federal Grant through the U.S. EPA

- Construction, education and monitoring.
- 40% match requirement, may use state grant/loans towards match.
- Planning and design may be eligible for match.
- May take two years to receive grant award.

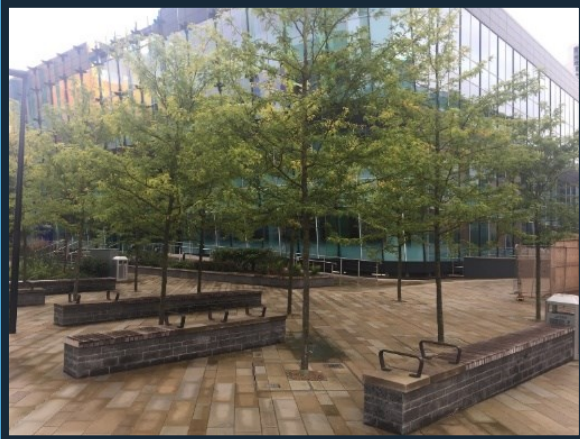
Eligibility

- Water quality improvement/restoration
- Groundwater protection
- Stormwater BMPs
- Agricultural BMPs
- Nonpoint source education
- Septic to sewer connections





NONPOINT SOURCE MANAGEMENT: STATE WATER QUALITY ASSISTANCE GRANT (SWAG)



- State grant for projects that reduce stormwater pollutant loadings in impaired waterbodies.
- “Shovel ready” construction projects.
- No required Match.
- No required water quality monitoring.
- Fast application to grant award date.



NONPOINT SOURCE MANAGEMENT: HOW TO SUBMIT A PROPOSAL?

- Application is available on Protecting Florida Together through August 2023.
- Department review and evaluation periods are expected to occur twice per year.
- If funding is available, grant awards may be awarded out of cycle.



STATE REVOLVING FUND (SRF)

Florida's largest financial assistance program for water infrastructure, capitalized by federal grants through EPA.

- Low-interest loans to local governments to plan, design, and build or upgrade water, wastewater and stormwater facilities.
- Interest rates on loans are below market rates and vary based on the economic wherewithal of the community.
- Discounted assistance (e.g., very low interest rates, grants, etc.) for small communities is available.
- Federal requirements for fair wages, American Iron and Steel, asset management plans.
- Eligible as match to the 319(h) and SWAG grants.





THANK YOU

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Protecting Florida Together

<https://protectingfloridatogether.gov/state-action/grants-submissions>

Division of Water Restoration Assistance

<https://floridadep.gov/wra>





THANK YOU

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