

#### Wacissa River and Wacissa Spring Group Basin Management Action Plan

#### October 7, 2024 at 2:00 PM EDT

#### **In-person**

Jefferson County R.J. Bailar Public Library 375 S Water St. Monticello, FL 32344

#### Agenda

- Wacissa River and Wacissa Spring Group (BMAP) Overview.
- Analysis results summary.
- Basin required reductions.
- Entity required reductions.
- Poster Session.

Please note the FTP site for documents pertaining to the various BMAPs: <u>publicfiles.dep.state.fl.us - /DEAR/BMAP/</u> For more information, contact: Sam Hankinson at (850) 245-8086 <u>Samuel.Hankinson@FloridaDEP.gov</u>.



# WACISSA RIVER AND WACISSA SPRING GROUP BASIN MANAGEMENT ACTION PLAN (BMAP)

Sam Hankinson, P.G. II Division of Environmental Assessment and Restoration/ Water Quality Restoration Program Florida Department of Environmental Protection

Monticello, FL | Oct. 7, 2024



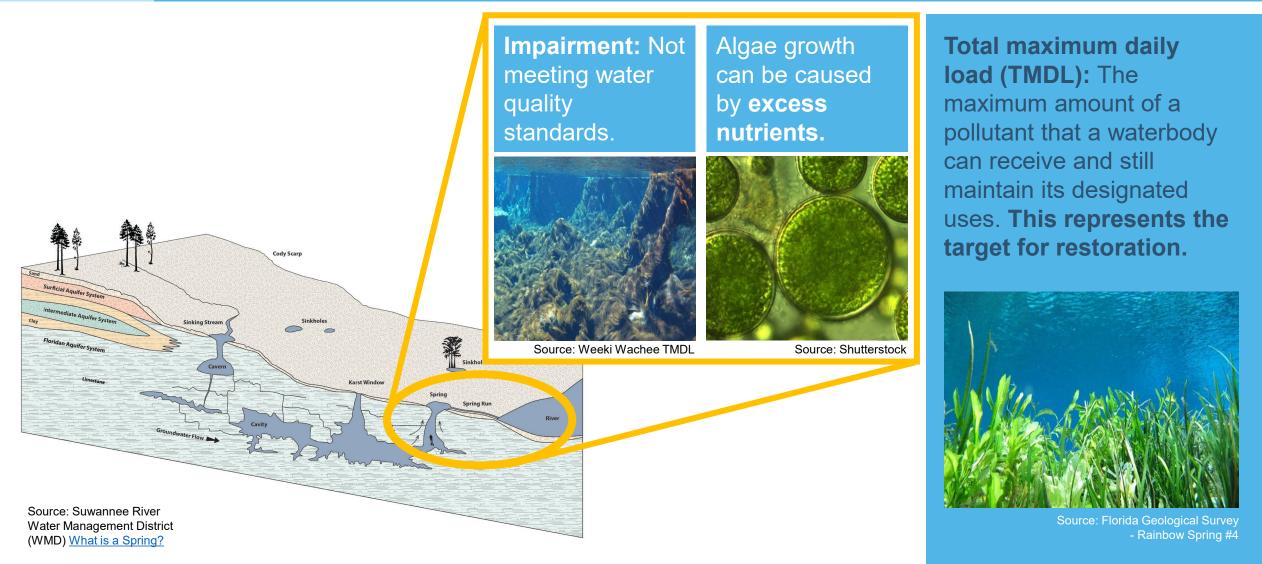
# AGENDA

- Background.
- Analysis results summary.
- Basin required reductions.
- Entity required reductions.
- Poster session.





### **BACKGROUND** SPRINGS RESTORATION





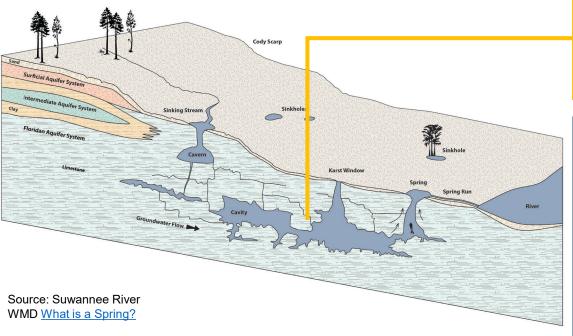
## **BACKGROUND** SPRINGS RESTORATION

Excess nutrients come from sources on the landscape.



**BMAP Projects**: Efforts that result in the reduction or prevention of nutrients to the waterbodies addressed by the BMAP.

Source: Beta Analytics



Complex groundwater dynamics lead to variable travel times to the spring vent.

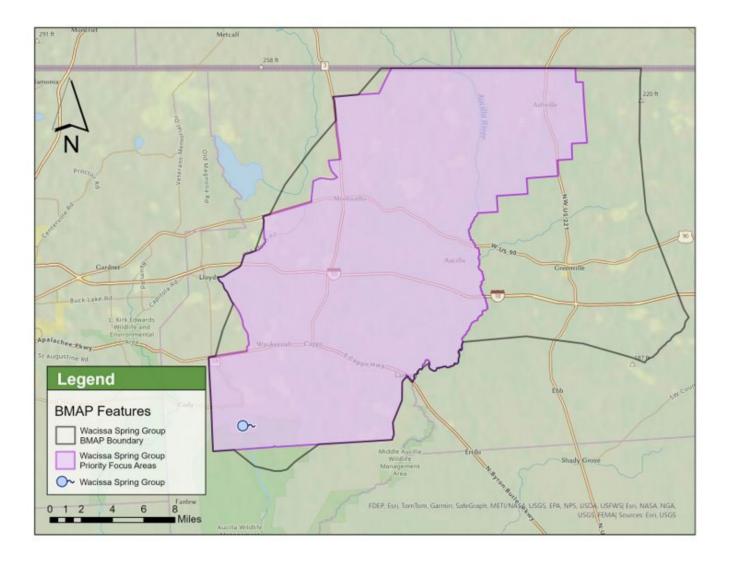
Water quality monitoring is performed through a network of surface water, spring vent and groundwater stations to assess waterbodies and measure progress towards restoration goals. **BMAP:** An adaptive framework for water quality restoration that contains a comprehensive set of solutions developed to achieve the pollutant reductions established by TMDL.



Source: Florida Geological Survey - Rainbow Spring #4



## **BMAP BACKGROUND**



 Approximately 327,585 acres/512 square miles in Jefferson and Madison counties.

Waterbody or Spring Name	Waterbody Identification (WBID) Number	Parameter	TMDL (mg/L)
Wacissa River	3424	Nitrate, monthly average	0.20
Wacissa Spring Group	3424Z	Nitrate, monthly average	0.24

mg/L: Milligrams per liter.



## **STAKEHOLDERS**

### **Responsible Stakeholders:**

- Agricultural Producers.
- Madison County.
- Jefferson County.
- City of Monticello.
- Town of Greenville.
- Private Golf Courses.
- Jefferson Correctional Institution
  Wastewater Treatment Facility.
- DOT Rest Area, I-10 and Aucilla River Wastewater Treatment Facility.

#### **Responsible Agencies:**

- Florida Department of Environmental Protection (DEP).
- Florida Department of Agriculture and Consumer Services (DACS).
- Florida Department of Health.
- Florida Department of Transportation (DOT).
- Northwest Florida Water Management District.
- Suwannee River Water Management District.



### BILLS AND LEGISLATION SUMMARY

- Florida Watershed Protection Act, section 403.067, Florida Statutes (F.S.).
- Florida Springs and Aquifer Protection Act, Part VIII of Chapter 373, F.S.
- 2020 Senate Bill (SB) 712, Clean Waterways Act.
- 2023 House Bill (HB) 1379.
- 2024 HB 1557.

#### **Summary of latest updates:**

- No new conventional onsite sewage treatment and disposal systems (OSTDS) on lots 1 acre or less.
- Wastewater treatment plans and OSTDS remediation plans from local governments.
- List of identified project to meet five-year milestones.
- Agricultural Cooperative Regional Elements (ACE).
- For the spring BMAPs, prohibitions expanded from priority focus area (PFA) to the entire BMAP.
- Advanced waste treatment (AWT) required for more types of effluent, including certain reclaimed water.



- Cooperative Agricultural Regional Water Quality Improvement Elements include a collaborative framework for identifying, prioritizing and implementing regional projects that address nutrient loading from agricultural operations in Florida's waterways.
- Continuous efforts among key stakeholders, including:

o DEP.

• DACS.

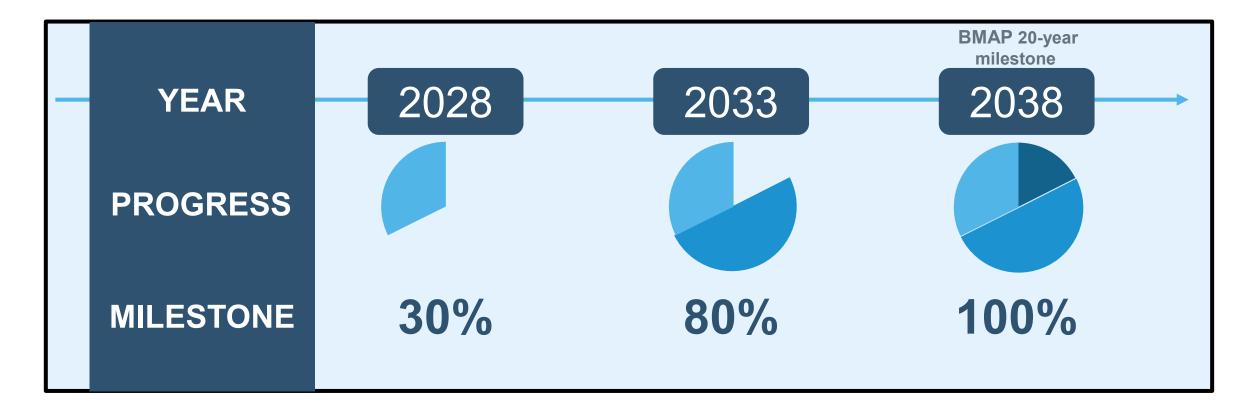
- Water management districts.
- Agricultural producers.
- Local communities.



- Engaging producers in the decision-making process is key to this element and ensures that projects are practical, feasible and tailored to the needs and realities of agricultural operations.
- Partner agencies work in annual cycles to provide technical support, regulatory guidance and funding opportunities, enhancing the implementation and success of regional water quality improvement initiatives.



### **BMAP MILESTONES** FIVE-, 10- AND 15-YEAR MILESTONES/REDUCTION SCHEDULE



Assessment of progress toward these milestones must be conducted every five years and revisions to the plan must be made as appropriate. BMAPs use an adaptive management approach that allows for incremental load reductions through the implementation of projects and management strategies; however, the restoration target – the TMDL – remains the same.



### **BMAP UPDATES** DRAFT LOADING SUMMARY

	Nitrogen Loads (lb-	
	N/yr)	Source
Total Load at Spring Vents		Upper 95% confidence interval - nitrate data and flow
(September 2023)		data from years 2013 to 2022
		TMDL target is 0.24 mg/L and using the same flow data
TMDL Load	108,541	from years 2013 to 2022
Percent Required Reduction	41%	
Total NSILT Load	550,679	2023 NSILT
Required Reduction	227,245	Proportional decrease in TMDL load

cfs: cubic feet per second



## **REDUCTIONS** DRAFT SPRINGSHED REQUIRED REDUCTIONS

	Allocations by		
Nitrogen Source	Source (lb-N/yr)	Description	Percent of Total Reduction
Atmospheric Deposition	43,443	Spring Vent Percentage	18.88%
OSTDS	14,803	Spring Vent Percentage on All Lots	6.43%
Wastewater Treatment Facilities	5,567	BMAP Effluent Requirements (AII)	2.42%
Farm Fertilizer (BMP)	40,508	15% reduction	17.60%
Livestock Waste (BMP)	10,296	10% reduction	4.47%
Livestock Waste - CAFO Dairy	2,586	10% reduction	1.12%
		Assign additonal reductions to meet spring vent percentage	
Other Agriculture	111,213		48.33%
Urban Turfgrass Fertilizers	1,510	Spring Vent Percentage	0.66%
Sports Turfgrass Fertilizers - Golf	147	Spring Vent Percentage	0.06%
Sports Turfgrass Fertilizers - Other	46	Spring Vent Percentage	0.02%
Total	230,120		100.00%

- The spring vent percentage of 41% was used to determine the required reduction for most categories.
- For WWTFs, reduction was determined based on the BMAP effluent standards.
- For agricultural sources, an estimated reduction of 15% will be achieved when crop producers are enrolled in the DACS Best Management Practice (BMP) program and implement BMPs, and a reduction of 10% is estimated when all livestock producers enroll in the DACS BMP program and implement BMPs. The remaining allocated reduction to agricultural sources will be addressed through a combination of regional projects, ACE, innovative technologies and cost-share projects.



## **REDUCTIONS** DRAFT ENTITY REQUIRED REDUCTIONS

All local municipalities will be allocated reductions based on the loading estimated to occur under their jurisdiction from wastewater, septic systems and urban fertilizers.

Entity	Milestone 2028 Required Reductions Ibs-N/yr (30%)	Milestone 2033 Required Reductions Ibs-N/yr (80%)	Milestone 2038 Required Reductions Ibs-N/yr (100%)
Jefferson County	3,291	8,776	10,970
Madison County	872	2,324	2,905
City of Monticello	151	404	505
Town of Greenville	2,041	5,442	6,802
Jefferson Correctional Institution WWTF*	195	521	652
DOT Rest Area, I-10 & Aucilla River WWTF *	28	74	92
Agriculture	49,381	131,683	164,604
Private Golf Courses*	44	118	147

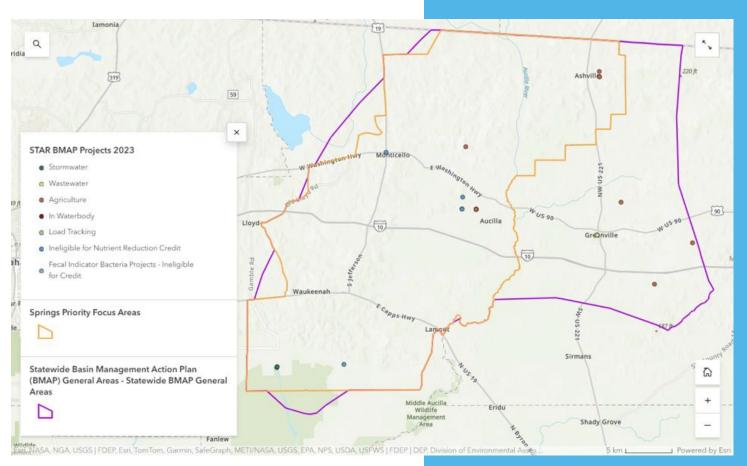
\*Reductions for these entities will be tracked through permits and compliance actions.



## PROJECTS

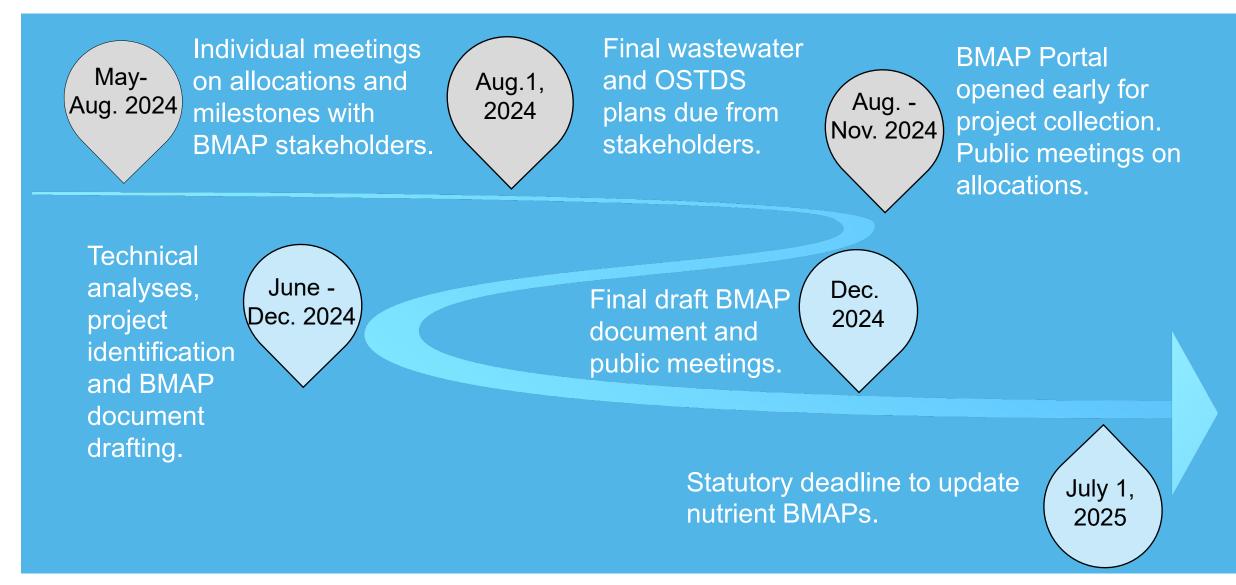
HB 1379 (2023) requires responsible entities to report on projects that meet their five-year milestones.

- Entities are required to plan and report projects to the state through the Statewide Annual Report (STAR) process. All projects needed to fulfill milestones should be added, even if a funding source has not been identified.
- Reporting projects in this process allows the state to evaluate funding needs and to assist in prioritizing projects to promote maximum environmental benefit.





## **UPCOMING SCHEDULE**





## RESOURCES **BMAP WEBSITE AND STORY MAPS**

#### **Florida Springs Basin Management Action Plans** (BMAPs)

Welcome to the Florida Springs Basin Management Action Plan (BMAP) StoryMap

The springs BMAPs are developed with specific provisions for the protection and restoration of the state's Outstanding Florida Springs. This story map focuses on the springs-related BMAPs; for more details about other BMAPs or more information about the BMAP program in general, visit https://floridadep.gov/bmaps.

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

#### Overview

The Florida Springs and Aquifer Protection Act (Part VIII of Chapter 373, F.S.) provides for the protection and restoration of the state"s Outstanding Florida Springs (OFS), which comprise 24 first magnitude springs, 6 additional named springs, and their associated spring runs. The act provides specific requirements for OFS BMAPs beyond those



1 Legislative Requirements



2 Crystal River - Kings Bay BMAP StoryMap



5 Homosassa and



👩 Rainbow Springs Group and Rainbow Springs Group Run...





8 Santa Fe River BMAP Story Map





3 DeLeon Spring Story Map

Pond BMAP Story Map

#### Basin Management Action Plans (BMAPs)

Home » Divisions » Division of Environmental Assessment and Restoration » Water Quality Restoration Program » Basin

#### Water Quality **Restoration Program**

Plans (BMAPs)

Water Quality Grant Opportunities 2024-25 **BMAP Public Meetings** 

and Basin Management

Tools and Guidance for Calculating Total Nitrogen (TN) and Total Phosphorus (TP) Reductions

Credit Trading

🙆 Jackson Blue and Merritts Mill









Fecal Bacteria Impaired BMAPs

Bacteria basin management action plans 3MAPs) include management strategies or projects, to be implemented by local stakeholders, that aim to eliminate and prevent the release of waste, containing pathogens, to natural waterbodies.

#### Ouick Links A BMAP is a framework for water quality restoration that contains a comprehensive set of solutions to achieve the pollutant reductions Basin Management Action established by a TMDL. Examples include permit limits on regulated facilities, urban and agricultural best management practices.

Statewide Annual Report

Impaired Waters, TMDLs

Action Plans Interactive Map

Florida Water Ouality

Clean Waterways Act Requirements for WWTP

and OSTDS



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. Progress is tracked by assessing project implementation and water quality analyses. DEP continues to work with local and regional partners to identify additional projects necessary to meet reduction milestones to achieve the TMDLs and inform funding priorities

What is a Basin Management Action Plan?

wastewater and stormwater infrastructure, regional projects and conservation programs designed to achieve pollutant reductions

#### What's New: Upcoming Meetings and BMAP Progress

#### July 1, 2025 BMAP Update Progress

As required by the Clean Waterways Act, DEP must prepare updates to its nutrient BMAPs by July 1, 2025. The July 1, 2025 BMAP Update Progress dashboard provides a visual representation of progress towards the completion of each of the required tasks and related sub-tasks leading up to the July 1, 2025 updates. Please visit the BMAP Public Meeting Calendar to find out about upcoming meetings and subscribe to meeting notices.

Springs BMAPs

prohibitions on certain activities apply

(such as installation of new

conventional sentic systems)



Map including BMAPs adopted and in progress

Nutrient BMAPs

conservation programs designed to

achieve pollutant reductions establishe

by a total maximum daily load

Map of HB 1379 New and Existing OSTDS Requirements



SUBSCRIBER PAGE HOW TO CONTACT US



BMAPProgram@FloridaDEP.gov



# THANK YOU

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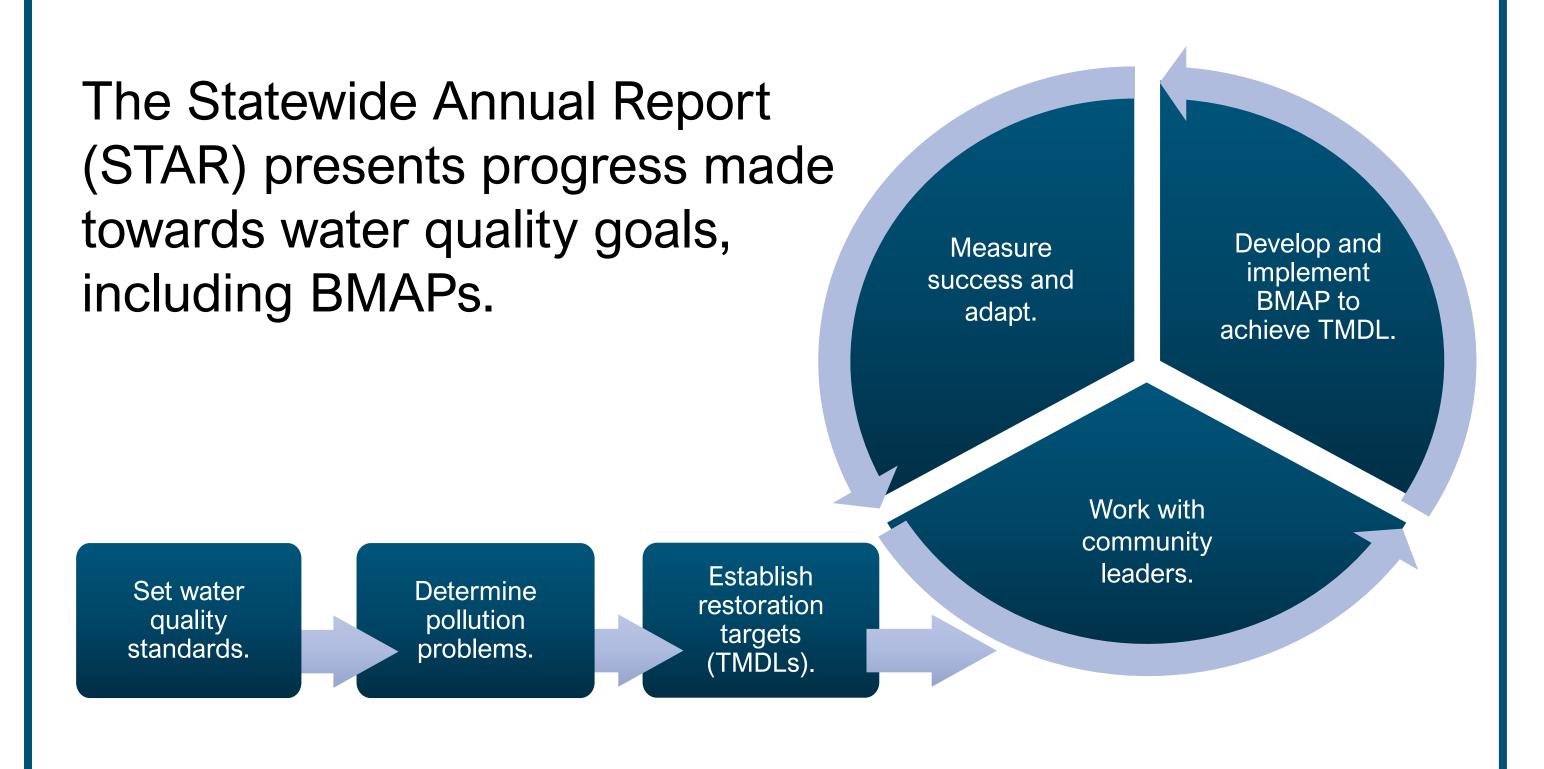




# Water Quality Framework

The Florida Department of Environmental Protection (DEP) monitors and assesses Florida's surface water and groundwater quality, including Outstanding Florida Springs.

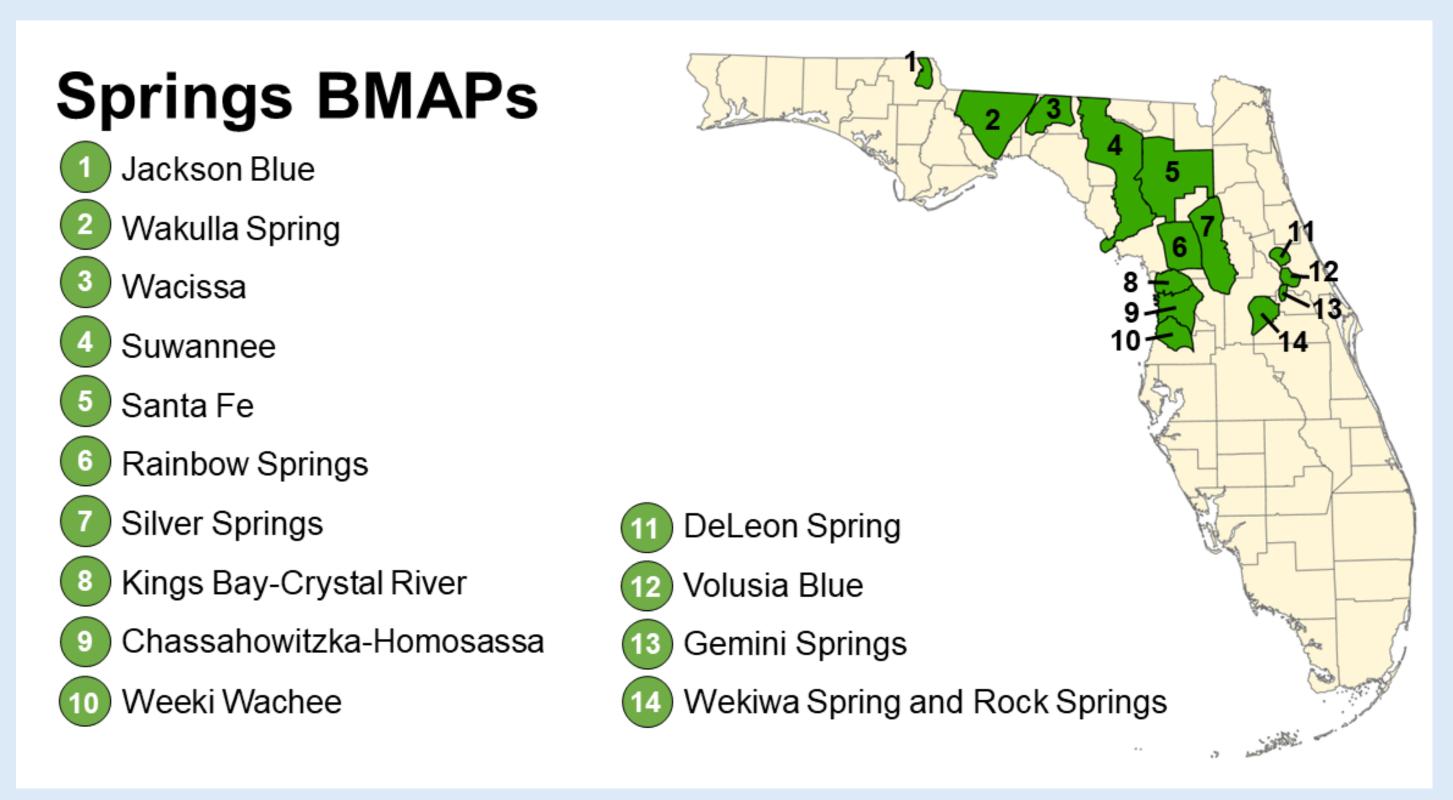
DEP and partner agencies maintain and expand monitoring networks to provide water quality data for decision making.



# **Outstanding Florida Springs BMAPs**

A BMAP provides a water quality restoration framework to implement total maximum daily loads (TMDLs).

There are currently 13 BMAPs targeting the restoration of 24 Outstanding Florida Springs.



# **OVERVIEW - BASIN MANAGEMENT ACTION** PLANS (BMAPS)

**Outstanding Florida Springs Public Meetings, Fall 2024** 

# **BMAP Legislation**

Authority and responsibility for BMAPs is outlined in the following Florida Statutes (F.S.):

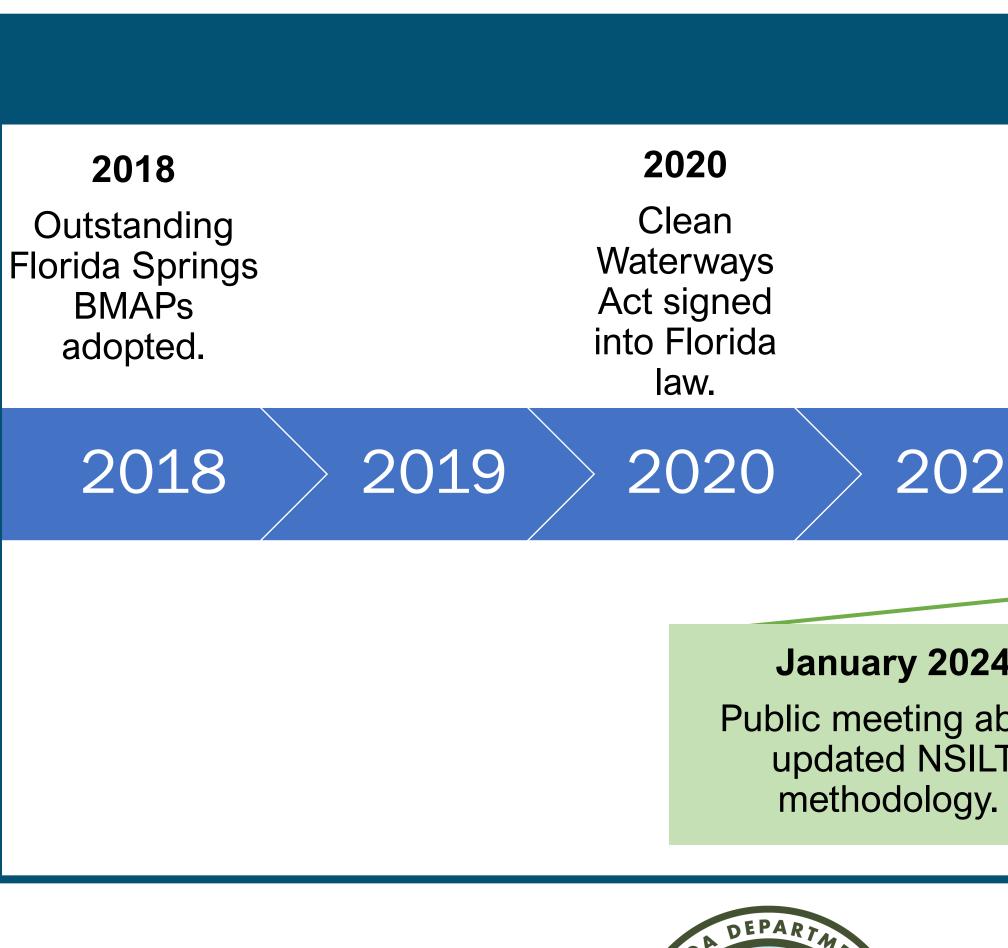
Florida Watershed Restoration Act (section 403.067, F.S) -Outlines the process for identifying impaired waters and the strategies to restore them, including cooperative plans, known as BMAPs.

Florida Springs and Aquifer Protection Act (sections 373.801 - .813, **F.S.)** -Provides for the protection and restoration of the state's Outstanding Florida Springs, which is comprised of 24 first-magnitude springs, six additional named springs and their associated spring runs.

**Recent amendments to the above laws include: 2020** - Promotes resilient wastewater infrastructure and utilities; requires local governments to develop wastewater treatment facility (WWTF) plans and onsite sewage treatment and disposal system (OSTDS) remediation plans.

**2023** - Requires a list of identified projects to achieve the five-year milestones in BMAPs and agricultural cooperative regional water quality improvement elements; adds requirements for local comprehensive planning; requires more stringent domestic wastewater treatment standards; expands eligibility for grant opportunities; and expands prohibitions in springs BMAP areas.

**2024** - Requires advanced treatment of reclaimed water within BMAPs and requires private domestic wastewater facilities to coordinate with local governments in the development of wastewater treatment plans.



# **BMAP Components and Updates**

# **Key Elements of BMAPs:**

- The TMDL(s) that define the restoration targets.
- Physical description of the waterbody and contributing area.
- Description of the monitoring network and water quality.
- Identification of the pertinent pollution sources.
- Identification of responsible stakeholders.
- List of projects and strategies to reduce nutrient loading.



USFWS\_CCBY2.0

# **BMAP Timeline**

2023 NSILT and spring vent analyses are updated with methodology revisions.

2025 Statutory deadline for BMAPs.

2021 2022 2023 2024

January 2024 Public meeting about updated NSILT

May 2024

**BMAP** updates public meetings. Responsible entity meetings.

August 2024 Final OSTDS **Remediation Plans and** WWTF Plans due.

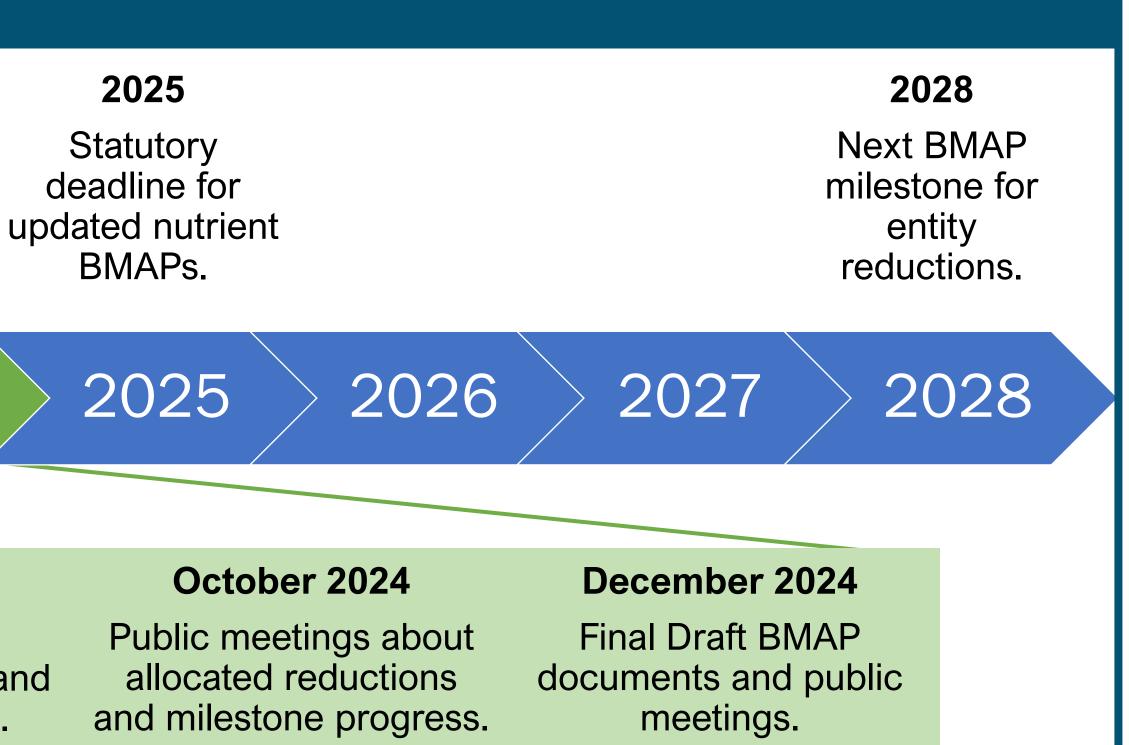


## **Recent Updates**:

- 2023 Nitrogen Source Inventory Loading Tool (NSILT).
- Spring Vent Analyses.
- Evaluation and expansion of the monitoring network.
- Local OSTDS and wastewater remediation plans.
- Determination of entity allocations and milestones.
- Evaluation of milestone progress with stakeholders.

## **New Additions to the Springs BMAPs:**

- More detailed groundwater analyses. • Updated spring vent water quality
- analyses.
- Incorporation of law requirements adopted 2020-24.
- Entity allocations.



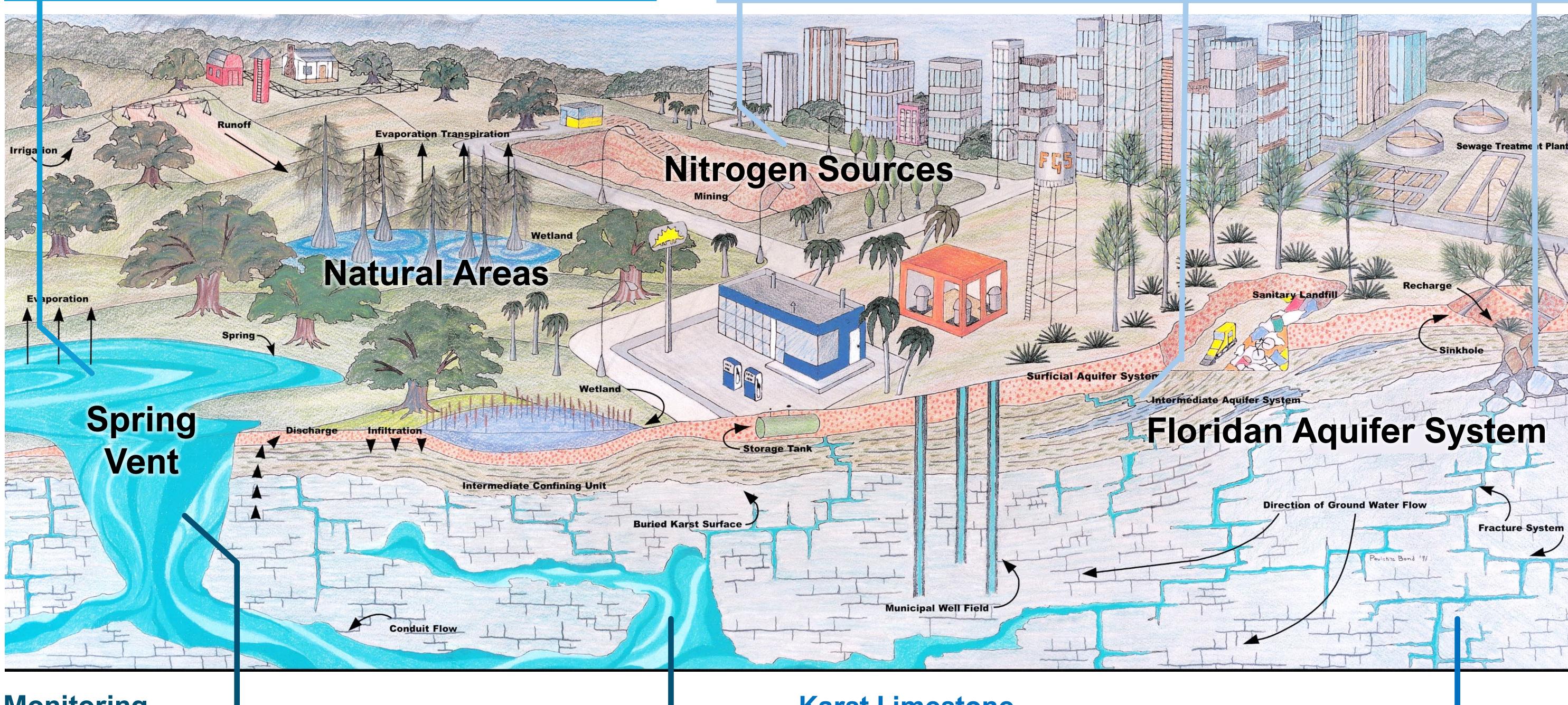
Moira Homann, Program Administrator Moira.Homann@FloridaDEP.gov 850-245-8460

# **Springshed Diagram**

The diagram below represents an overview of the complex processes that impact water flow through a spring system. It also shows how human behaviors on the landscape affect nitrogen pollution in the groundwater. Eventually, groundwater flows back to the surface through the Outstanding Florida Springs (OFS). Pollutants from the surface can travel long distances, negatively impacting water quality and the biology of springs and rivers. The variable distances and underground conditions means it can take time to observe water quality improvements at the spring vent from restoration projects being implemented on the land surface across the springshed.

# OFS

**OFS** includes all historic first magnitude springs and their associated spring runs as determined by DEP, using the most recent Florida Geological Survey springs bulletin (66), as well as the following additional springs and their associated spring runs: DeLeon Springs, Peacock Springs, Poe Springs, Rock Springs, Wekiwa Springs and Gemini Springs.



# Monitoring

Spring vent monitoring is performed by DEP and partner agencies to measure progress towards meeting the total maximum daily loads (TMDLs). Groundwater monitoring is performed by DEP and partner agencies to understand how nutrient loading and reduction activities impact water traveling to the spring vent.

[Springshed diagram: FGS PR5] [Aquifer diagram: St. Johns River Water Management District (SRJWMD)]

# FLORIDA SPRINGS - AN OVERVIEW **Outstanding Florida Springs Public Meetings, Fall 2024**

## Impairment

Currently, 24 of the 30 OFS are impaired for the nitrate form of nitrogen. Anthropogenic sources of nitrogen such as human waste, livestock waste, farm fertilizer, urban fertilizer and other sources contribute to nitrate loading that results in an ecological imbalance.

Vulnerability evaluates how

easily pollutants from the surface can impact groundwater quality.

# **Karst Limestone**

The Floridan aquifer is contained in limestone units that underly the state. Karst limestone results from the dissolution of calcium carbonate rock by acidic rainwater, creating voids and channels that result in sinkholes, conduits and springs. Water can travel rapidly from high recharge areas to spring vents through karst features.



infiltrates through the soil and enters an underlying aquifer system.

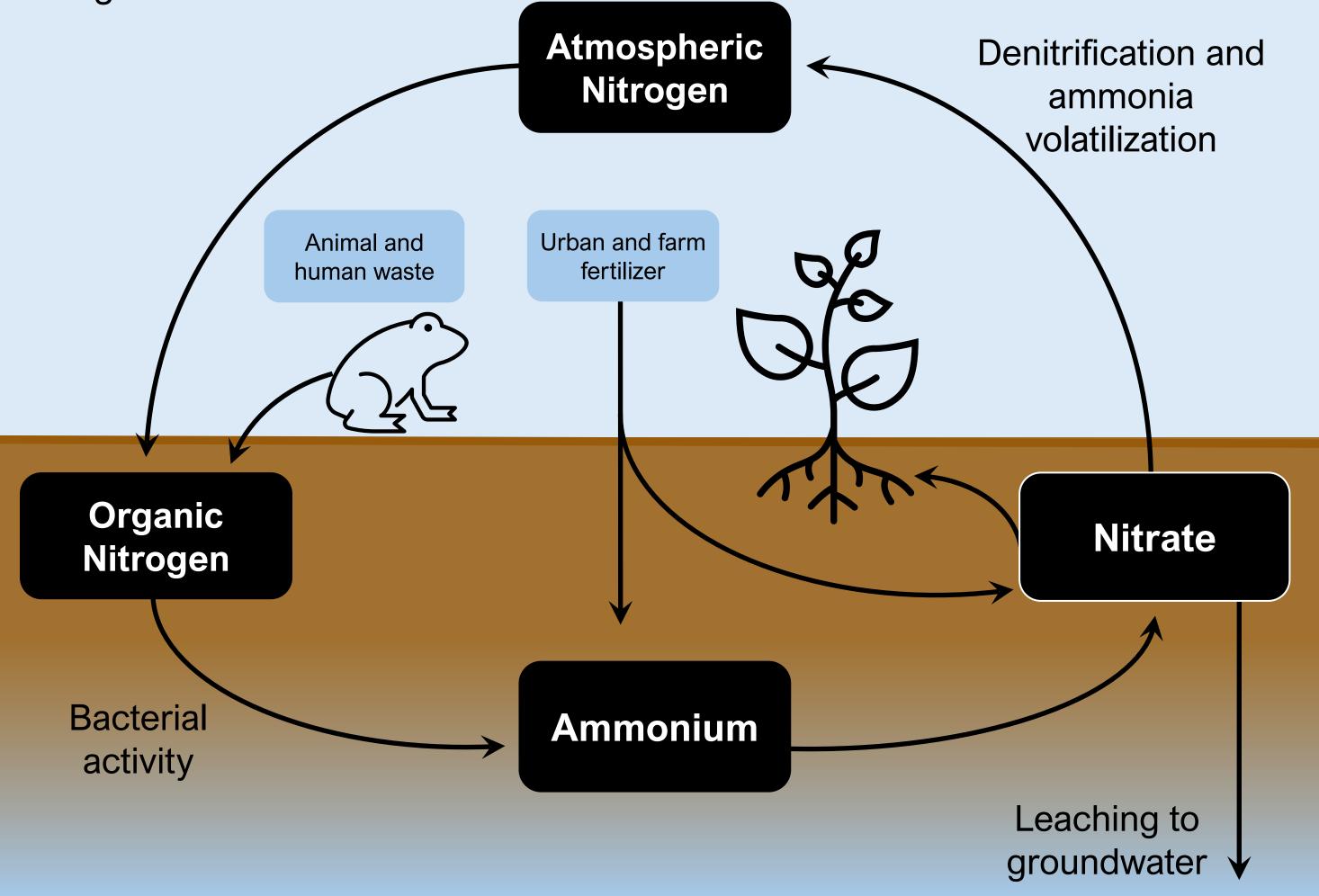
Recharge

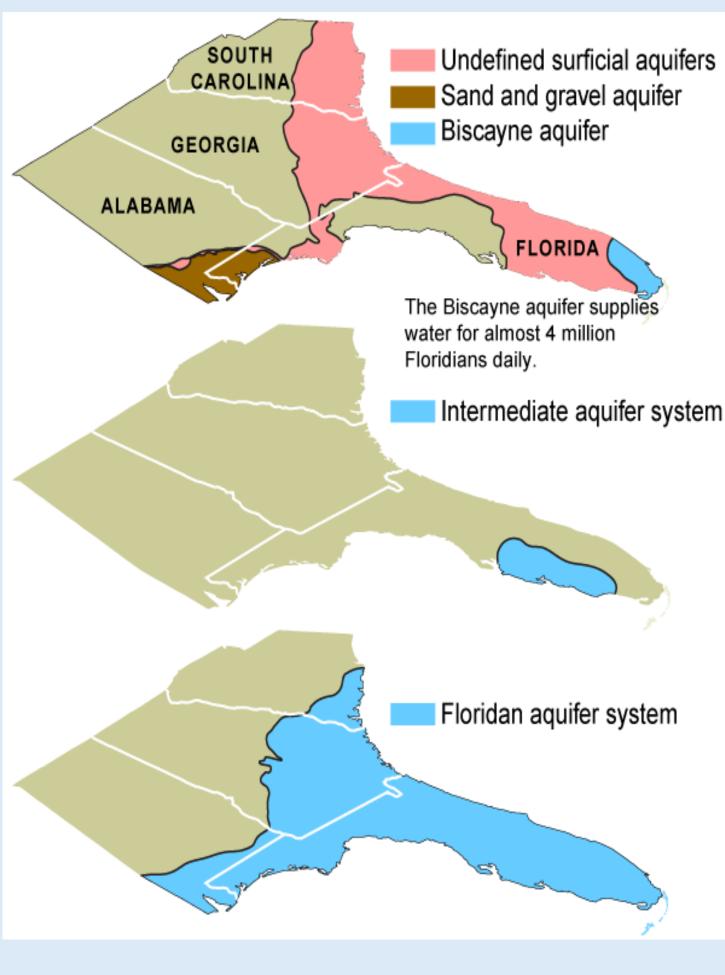
occurs when rain

or irrigation water

Nitrogen goes through biological, physical and chemical processes as it travels through the environment. This series of interactions is known as the nitrogen cycle.

**Attenuation** of nitrogen refers to the processes of immobilization, denitrification, volatilization and cation exchange that prevent leaching of nitrogen.





# The Nitrogen Cycle

# Florida's Aquifer Systems

The Floridan Aquifer underlies the entire state of Florida and is the source water for the state's springs.

In some areas of the state, a surficial aquifer system separates the Floridan Aquifer from the land surface.

In most OFS areas, the Floridan Aquifer is largely unconfined and vulnerable to leaching of nitrogen from the land surface.

Lauren Campbell, PhD, Environmental Administrator Lauren.Campbell@FloridaDEP.gov 850-245-8825



# 258 ft N

L. Kirk Edwards

Groundwater Recharge

Legend

High Medium

Low

Discharge

0 1 2 4

**BMAP** Features

Wacissa Spring Group BMAP Boundary

→ Wacissa Spring Group

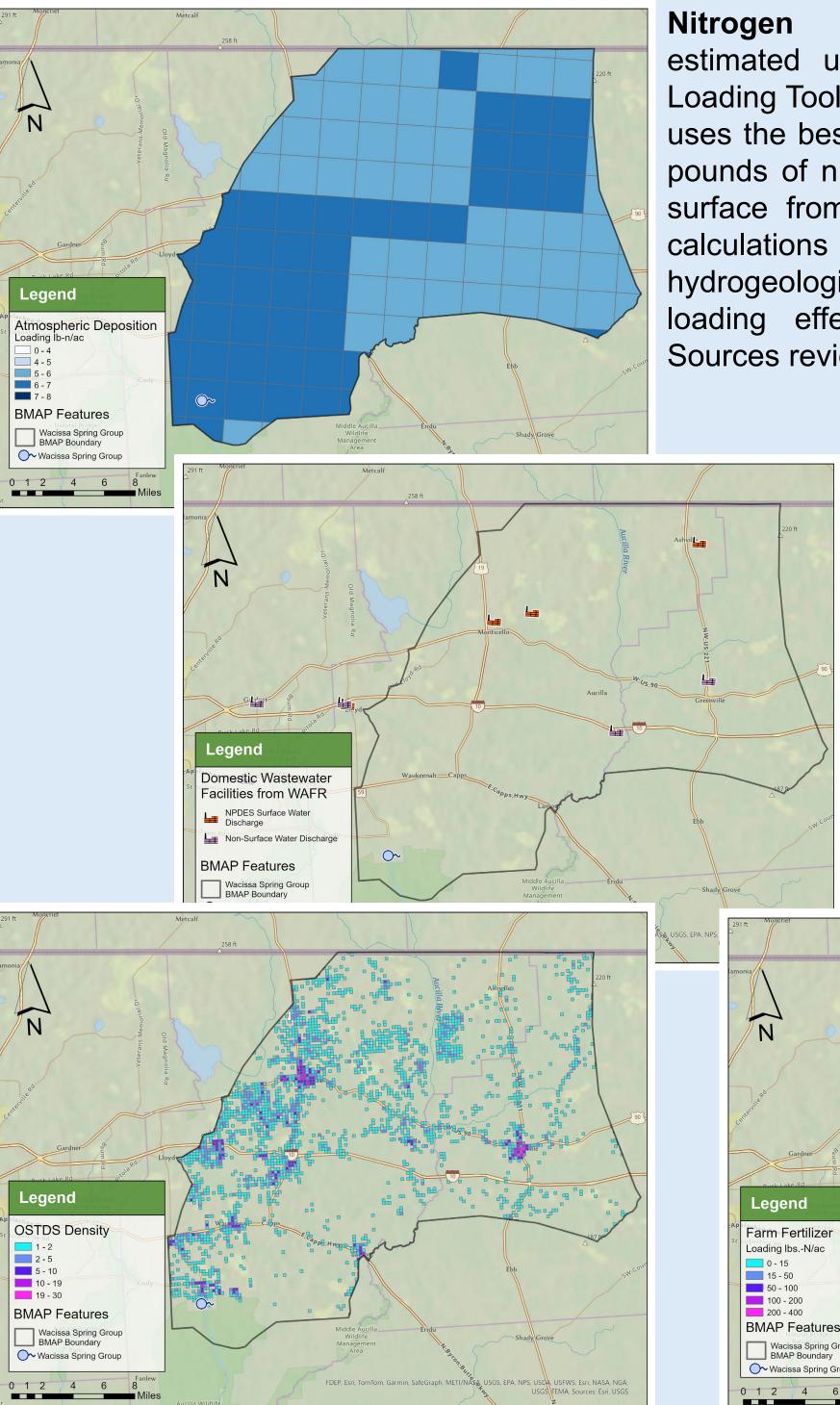
# Nitrogen Source Loading

Aiddle Aucilla

Wildlife

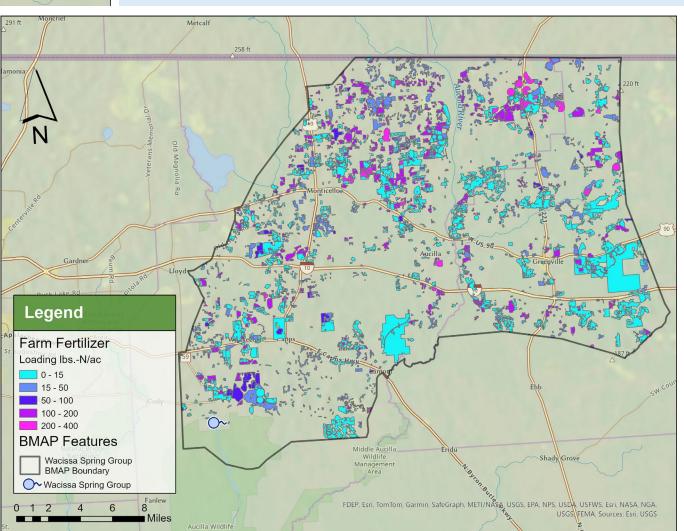
**Anagement** 

Area

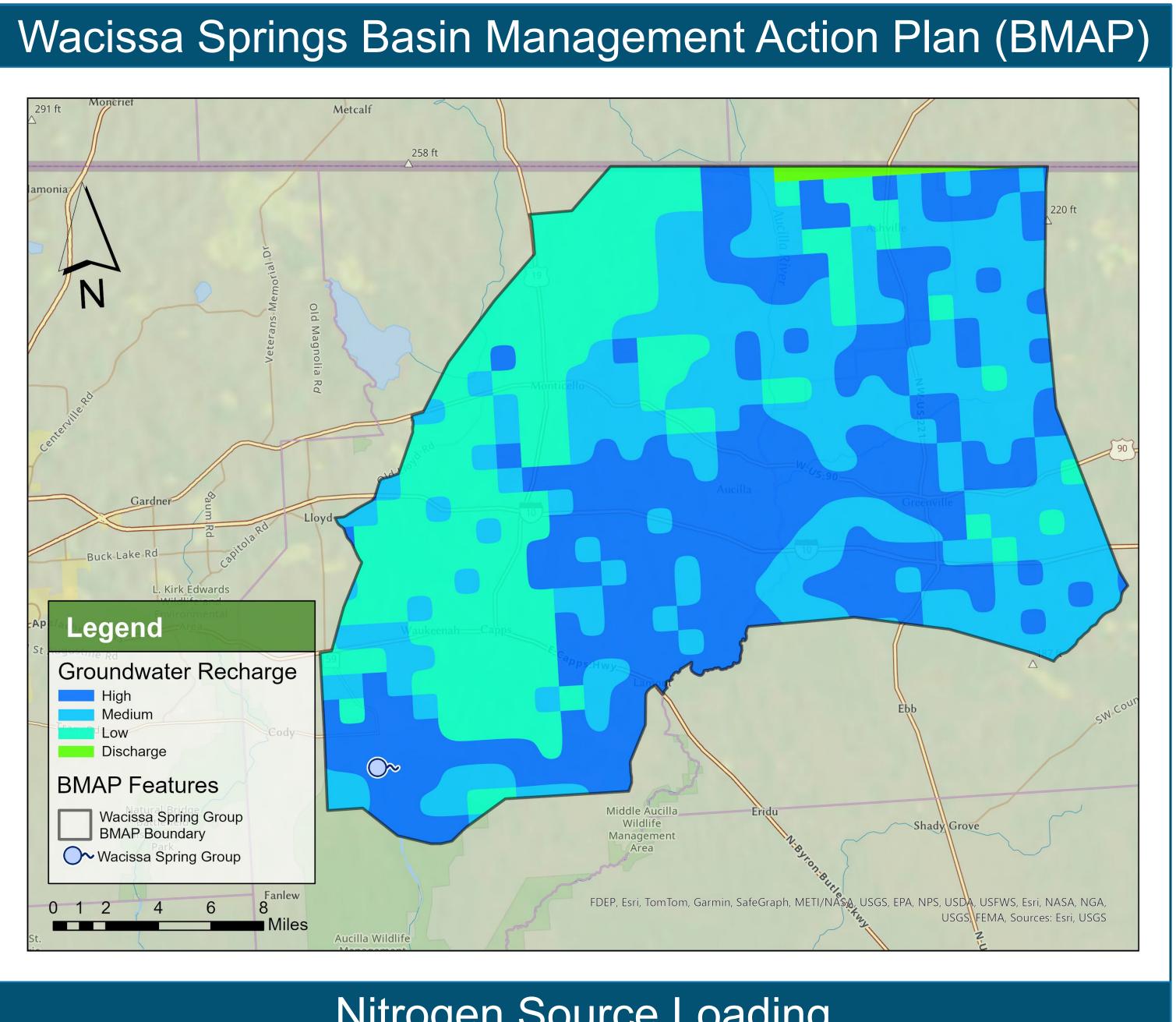


Nitrogen Loading: Nitrogen loading was estimated using the Nitrogen Source Inventory Loading Tool (NSILT). This is an evaluation tool that uses the best available data to estimate loading in pounds of nitrogen per year (lbs-N/yr) to the land surface from a variety of nitrogen sources. The calculations apply biochemical attenuation and hydrogeological attenuation factors to estimate the loading effects on groundwater (GW) quality. Sources reviewed include:

- Farm Fertilizer
- Livestock Waste
- Dairies
- BMAP)

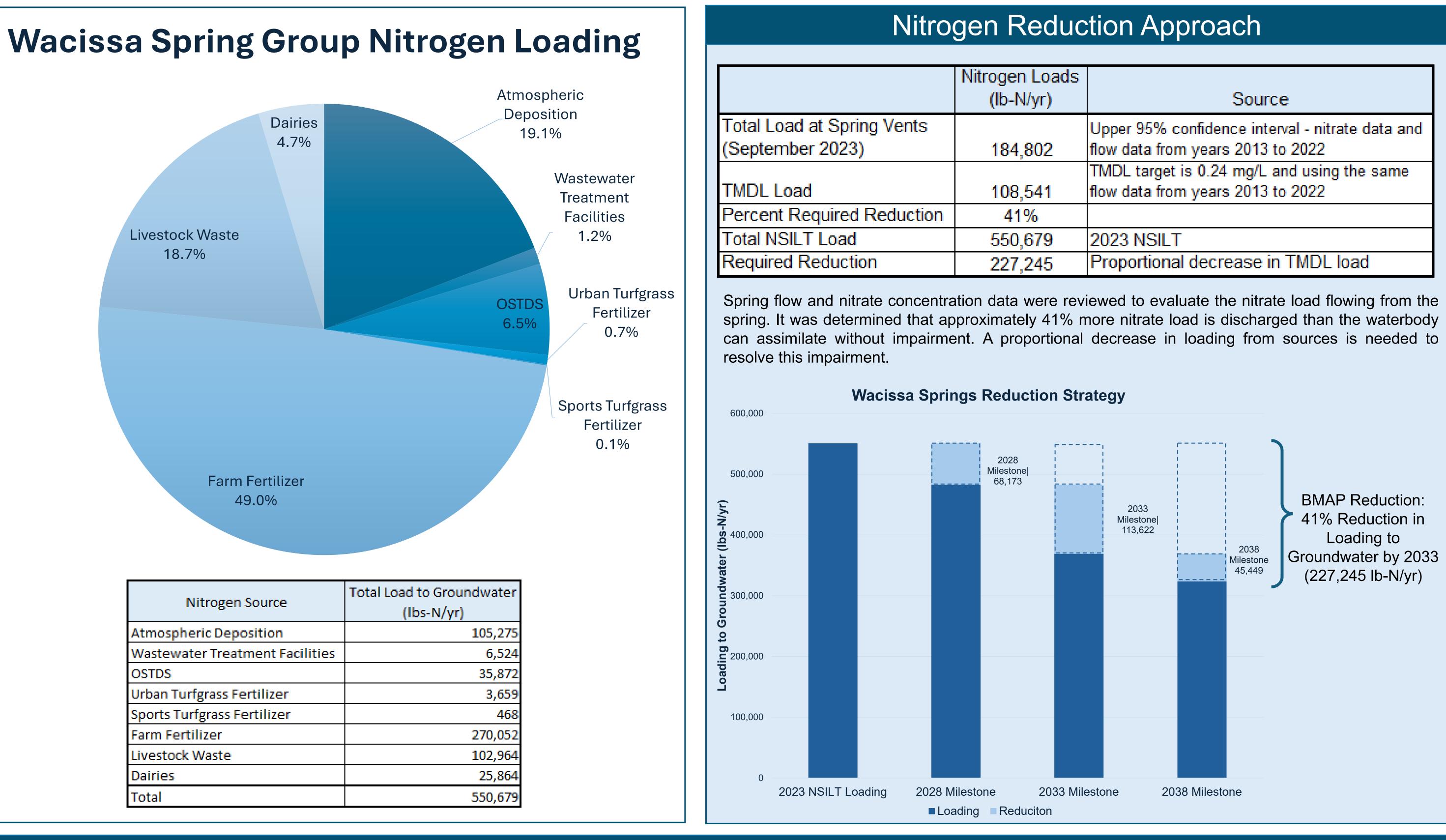


# Wacissa River and Wacissa Spring Group Basin Summary

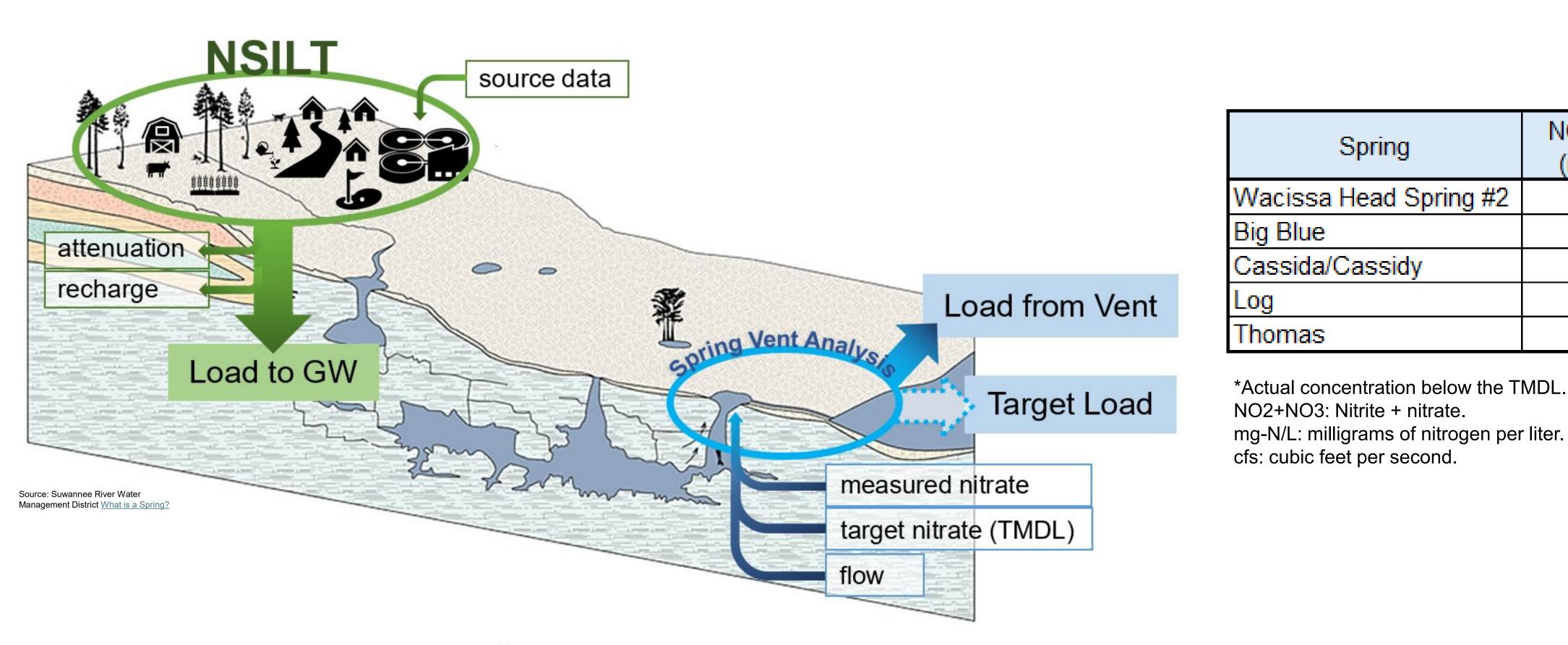


 Atmospheric Deposition Wastewater Treatment Facilities • Onsite Sewage Treatment and Disposal Systems (OSTDS) Urban Turfgrass Fertilizer • Sports Turfgrass Fertilizer

• Biosolids (not in the Wacissa



**Load from Vent – Target Load =** Reduction at vent Percent Reduction at vent x Load to Groundwater = Required Reductions (from sources)





# Spring Vent Analysis



Nitrogen Loads	
(lb-N/yr)	Source
	Upper 95% confidence interval - nitrate data and
184,802	flow data from years 2013 to 2022
	TMDL target is 0.24 mg/L and using the same
108,541	flow data from years 2013 to 2022
41%	
550,679	2023 NSILT
227,245	Proportional decrease in TMDL load

	NO2+NO3	TMDL	Discharge	Loading
	(mg-N/L)	(mg-N/L)	(cfs)	(lb-N/yr)
oring #2	0.44	0.24	124.69	108,549
	0.24*	0.24	27.80	13,121
	0.39	0.24	27.66	21,376
	0.44	0.24	31.17	26,851
	0.41	0.24	18.70	14,906

# Wacissa River and Wacissa Spring Group BMAP **Allocated Reductions, Milestones and Progress**

# Nitrogen Sources

Nitrogen Source	Allocations by Source (lb-N/yr)	Percentage of Total Reduction
Atmospheric Deposition*	43,443	18.88%
Onsite Sewage Treatment and Disposal Systems	14,803	6.43%
Wastewater Treatment Facilities	5,567	2.42%
Farm Fertilizer (BMP Enrollment)	40,508	17.60%
Livestock Waste (BMP Enrollment)	10,296	4.47%
Dairies - Confined Animal Feeding Operations (CAFO)	2,586	1.12%
Other Agriculture	111,213	48.33%
Urban Turfgrass Fertilizer	1,510	0.66%
Sports Turfgrass Fertilizer - Golf	147	0.06%
Sports Turfgrass Fertilizer - Other	<mark>4</mark> 6	0.02%
Total	230,120	100.00%

\*Not allocated to entities.

# **BMAP Management Strategies**

**General Approach for Entity Allocations and Reductions** While the loading evaluation and entity allocations were determined by source, nutrient reduction credits can be earned through implementing projects addressing any source. Achieving milestone reductions is needed to ensure sufficient progress towards meeting the total maximum daily load (TMDL) target.

## **Source-Specific Management Strategies:**

- **Atmospheric Deposition:** Due to continuing air regulations and fuel switching, emissions of atmospheric nitrogen have been trending downwards in Florida since at least 2005 (Himes & Dawson, 2017).
- **Onsite Sewage Treatment and Disposal Systems (OSTDS):** New installation or repair permits for conventional OSTDS are not permitted on lots one acre or less.
- Wastewater Treatment Facilities: Surface water discharges from facilities must meet advanced waste treatment (AWT). Other discharge methods must meet AWT standards, if the Florida Department of Environmental Protection (DEP) determines the treatment is needed.
- Farm Fertilizer Best Management Practice (BMP) Implementation: An assumed 15% reduction in nitrogen when a producer enrolls in the Florida Department of Agriculture and Consumer Services (DACS) BMP program and implements BMPs.
- Livestock Waste BMP Implementation: An assumed 10% reduction in nitrogen when a livestock producer enrolls in the DACS BMP program and implements BMPs.
- **Other Agricultural Activities:** The remainder of reductions allocated to agricultural sources will need to be addressed through a combination of regional agricultural projects, agricultural cooperative regional elements, innovative technologies and cost-share projects.
- **Urban Turfgrass Fertilizer:** Ordinances, education, street sweeping and structural stormwater improvements to reduce impact from urban turfgrass fertilization.
- **Sports Turfgrass Fertilizer Golf:** Operators will be required to develop a nutrient management plan to ensure responsible management of nutrients.
- **Sports Turfgrass Fertilizer Other:** Owners/operators should follow the Sports Turfgrass BMP manual to ensure fertilizers are managed responsibly.

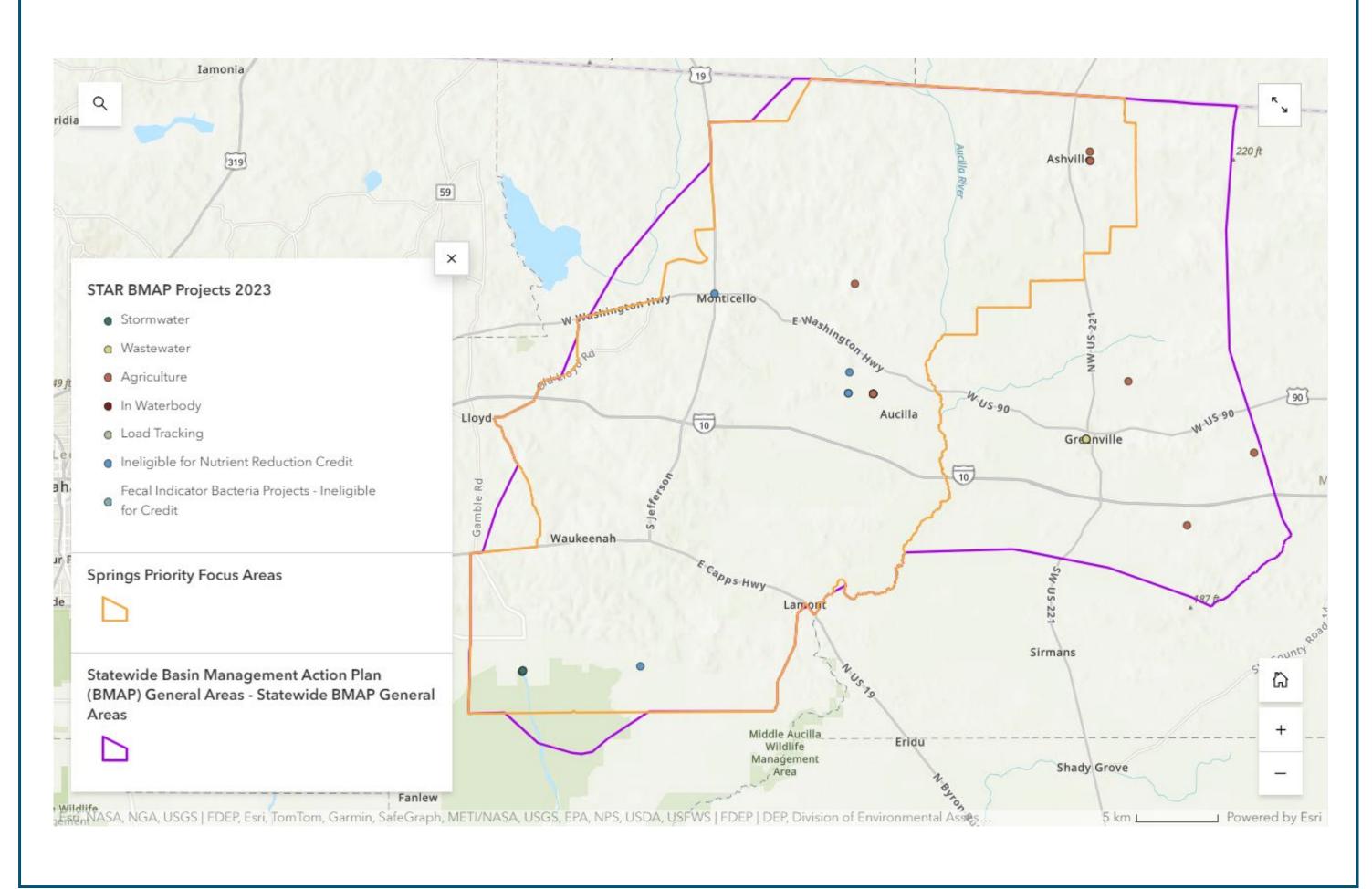
# Projects



Project collection and reporting are crucial to the successful implementation and management of basin management action plans (BMAPs). Projects are reported to DEP annually through the Statewide Annual Report (STAR) process.

Stakeholders are required to report projects that are being implemented or planned that will be required to achieve **reduction targets**, along with an estimate of expected nutrient reduction benefits and financial costs.

It is important that all projects needed to achieve milestones are included in the STAR, even if a funding mechanism is not currently identified because this provides the state information on funding needs to achieve BMAP goals and assists with the prioritization of projects.





# Entity Jefferson County Madison County City of Monticello Town of Greenville Jefferson Correctional Institution WWT DOT Rest Area, I-10 & Aucilla River WV Aariculture Private Golf Courses\* \*Reductions for these entities will be tracked through permits and compliance actions. **Progress Towards 2028 Milestone** Agriculture Town of Greenville Madison County **Jefferson County** City of Monticello

Credits Completed & Ongoing

## \*Estimates through December 2023



# Entity Reduction Milestones and Progress

	Milestone 2028 Required Reductions Ibs-N/yr (30%)	Milestone 2033 Required Reductions Ibs-N/yr (80%)	Milestone 2038 Required Reductions Ibs-N/yr (100%)
	3,291	8,776	10,970
	872	2,324	2,905
	151	404	505
	2,041	5,442	6,802
F	195	521	652
WTF	28	74	92
	49,381	131,683	164,604
	44	118	147



Source: Florida Geological Surve 4- Rainbow Spring

Florida Department of Environmental Protection (DEP) Wacissa Basin Management Action Plan (BMAP) Meeting Summary October 7, 2024, 2:00 pm – 3:15 pm Jefferson County R.J. Bailar Public Library 375 S. Water St., Monticello, FL

#### Attendees

Tiffany Busby, Wildwood Consulting Lauren Campbell, DEP Caraline Coombs, FFBF Chris Denmark, FDACS Dan Hamedani, Citizen Sam Hankinson, DEP Maddy Hart, FDACS Moira Homann, DEP Celeste Lyon, RES Raulie Raulerson, FFBF Douglas Walker, FDACS Ken Weaver, DEP Stefani Weeks, Weeks Engineering Services

#### Presentation

Sam Hankinson gave a brief overview of the Wacissa BMAP, basin required reductions, entity required reductions, and the upcoming BMAP schedule. He explained that the total maximum daily loads (TMDLs) are 0.24 milligrams per liter (mg/L) of nitrate for the Wacissa Spring Group and 0.20 mg/L for the Wacissa River (waterbody identification number 3424). Based on recent water quality data, an additional 41% reduction is needed to meet the water quality target.

#### **Poster Session**

Posters were presented, along with the opportunity for attendees to review BMAP information and ask questions of DEP and Florida Department of Agriculture and Consumer Services (FDACS) staff.

#### Written Comments

One written comment was submitted at the meeting. Dan Hamedani suggested that the local governments should install sewer service when water service is being extended to new parcels. Also, he suggested that projects prioritize moving electric utilities underground, for better storm resilience. He recommended local governments improve stormwater, sewer, and electric utilities to be less vulnerable to storms and flooding.