



BASIN MANAGEMENT ACTION PLAN PROJECT UPDATES

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Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection

Springs Coast Steering Committee Meeting (Virtual) | July 23, 2025



AGENDA

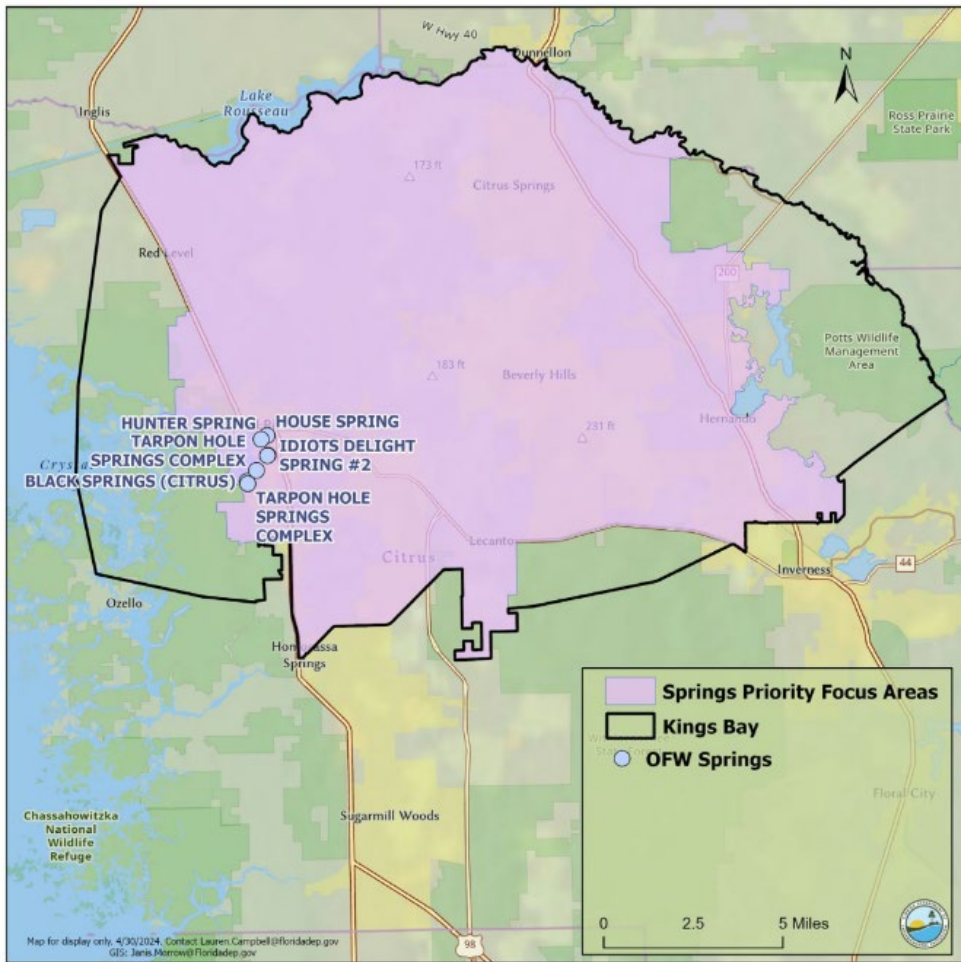
- Basin Management Action Plan (BMAPs) in the Southwest Florida Water Management District (SWFWMD).
- BMAP Projects.
- Statewide Annual Report (STAR) Project Update.
 - 2023 vs. 2024



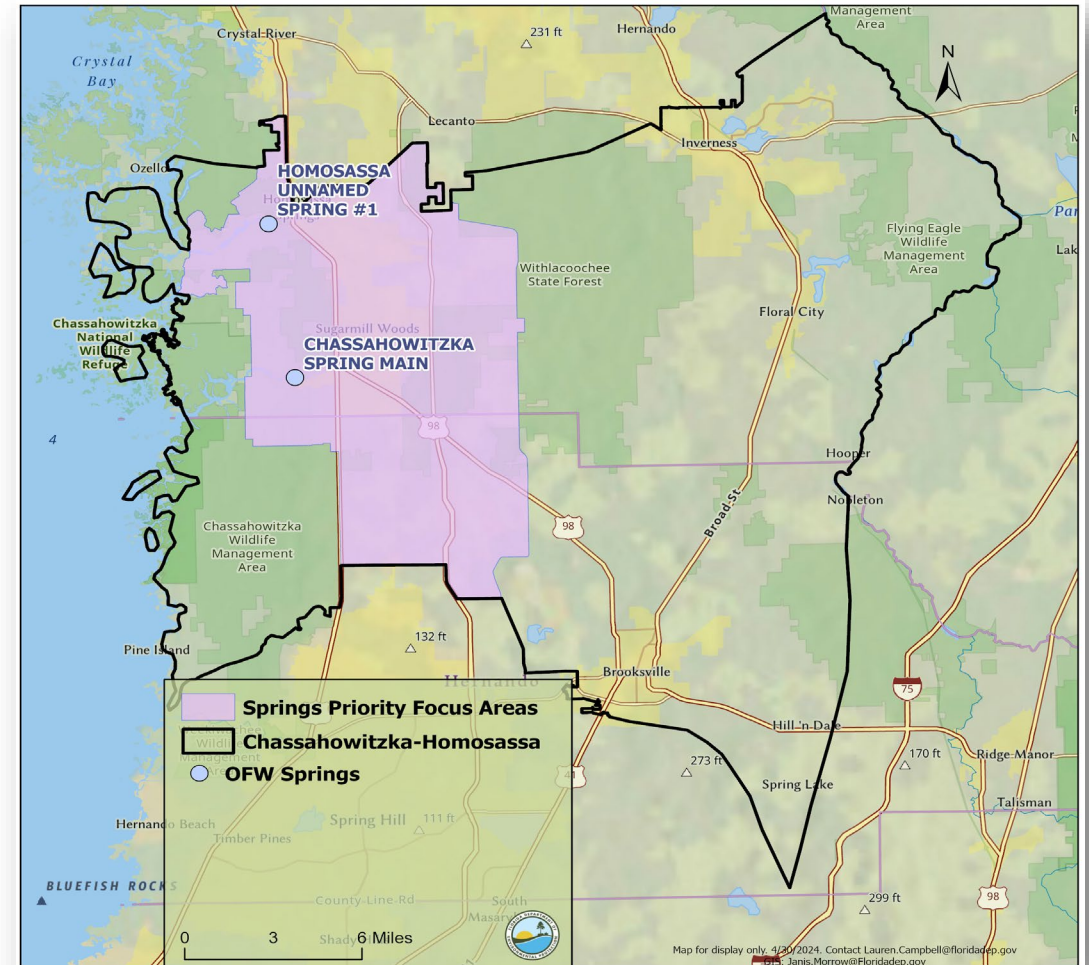


OUTSTANDING FLORIDA SPRINGS BMAPS IN THE SWFWMD

CRYSTAL RIVER — KINGS BAY



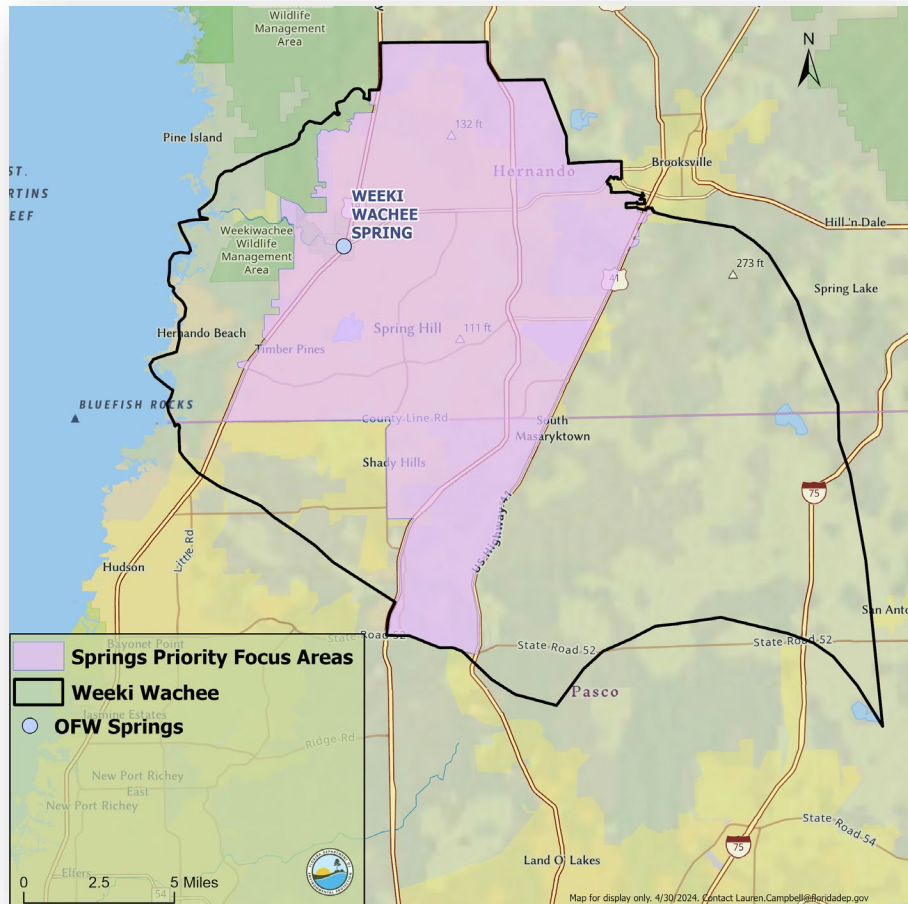
HOMOSASSA AND CHASSAHOWITZKA SPRING GROUPS



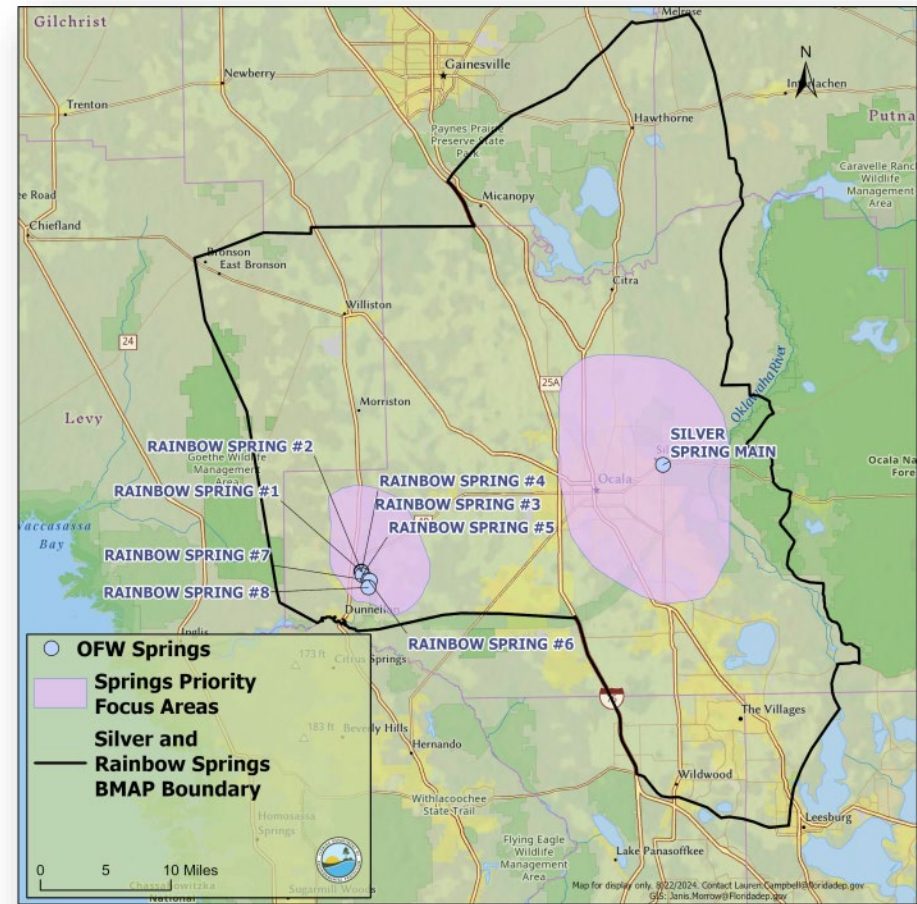


OUTSTANDING FLORIDA SPRINGS BMAPS IN THE SWFWMD

WEEKI WACHEE



RAINBOW SPRING GROUP AND RAINBOW RIVER AND SILVER SPRINGS AND UPPER SILVER RIVER





KEY BMAP COMPONENTS

- TMDLs being addressed.
- Area addressed by the restoration plan.
- Identify sources.
- Phased implementation approach.
- Milestones.
- Projects and management strategies.
- Future growth impacts.

Projects to meet the TMDL:

- Implementation timeline.
- Commitment to projects.
- Expected water quality improvement from projects and management strategies.

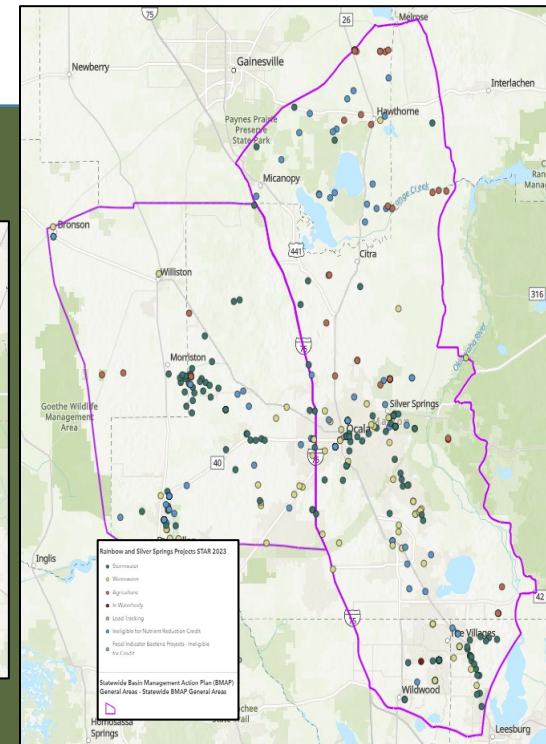
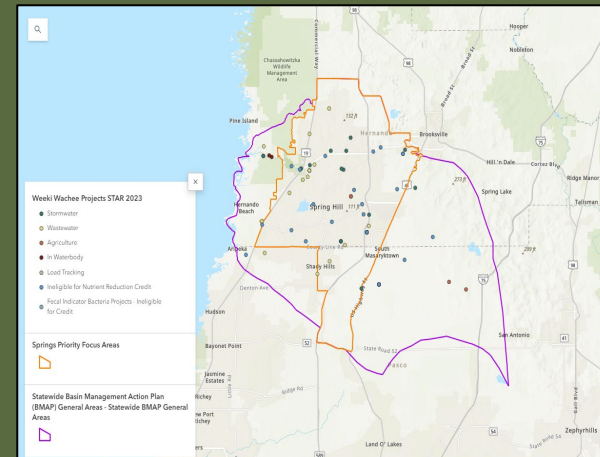
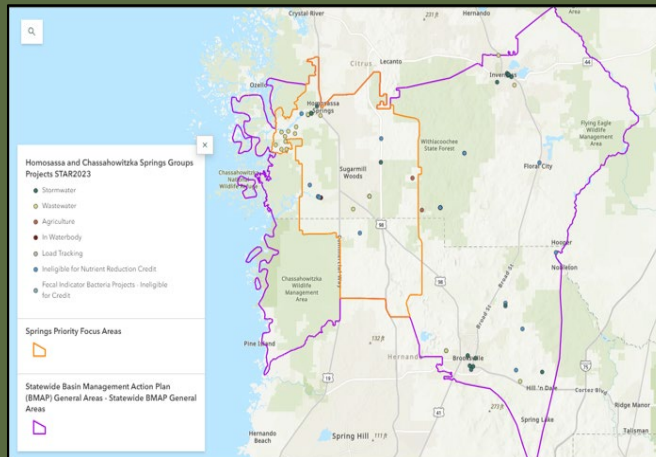
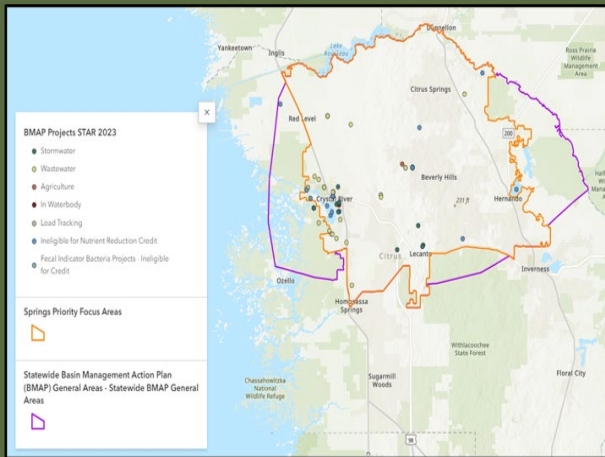
Process to assess progress toward achieving the TMDL:

- Monitoring plan.
- Project reporting.
- Periodic follow-up meetings.
- Water quality analyses.



PROJECTS/MANAGEMENT STRATEGIES

BMAP projects are efforts that result in the reduction or prevention of contributions of nutrients or bacteria to the watersheds of waterbodies addressed by the BMAP.





PROJECTS/MANAGEMENT STRATEGIES

- Broad definition:
 - Structural Best Management Practices (BMPs).
 - Operation and maintenance of wastewater and stormwater infrastructure.
 - Planning and management strategies.
 - Plans for management of wastewater.
 - Upgrades to wastewater treatment plants.
 - Sewering of areas served by septic tanks.
 - Enhancement of existing septic systems.
- Examples:
 - Urban structural BMPs (e.g. stormwater ponds, swales).
 - Maintenance and operation of BMPs.
 - Agriculture BMPs — acreage covered under a Notice of Intent (NOI).
 - Street sweeping.
 - Public education and outreach.
 - Ordinances — such as fertilizer ordinances.
 - Spring protection zone.
 - Florida Friendly Landscaping.



BMAP PROJECTS – STATUS



Source: [WaterMatters.org](https://www.watarmatters.org/)

- **Completed** — Project, activity, or task that is finished. Completed project TN and TP reductions undergo verification before they are listed in reports.
- **Ongoing** — The lead entity is performing actions each year. This status is used when a project is typically non-structural and continuous.
- **Planned** — Project or activity that is conceptual or proposed.
- **Underway** — Project or activity that has commenced or initiated but is not completed and is not yet reducing nutrient loads from the treated area.

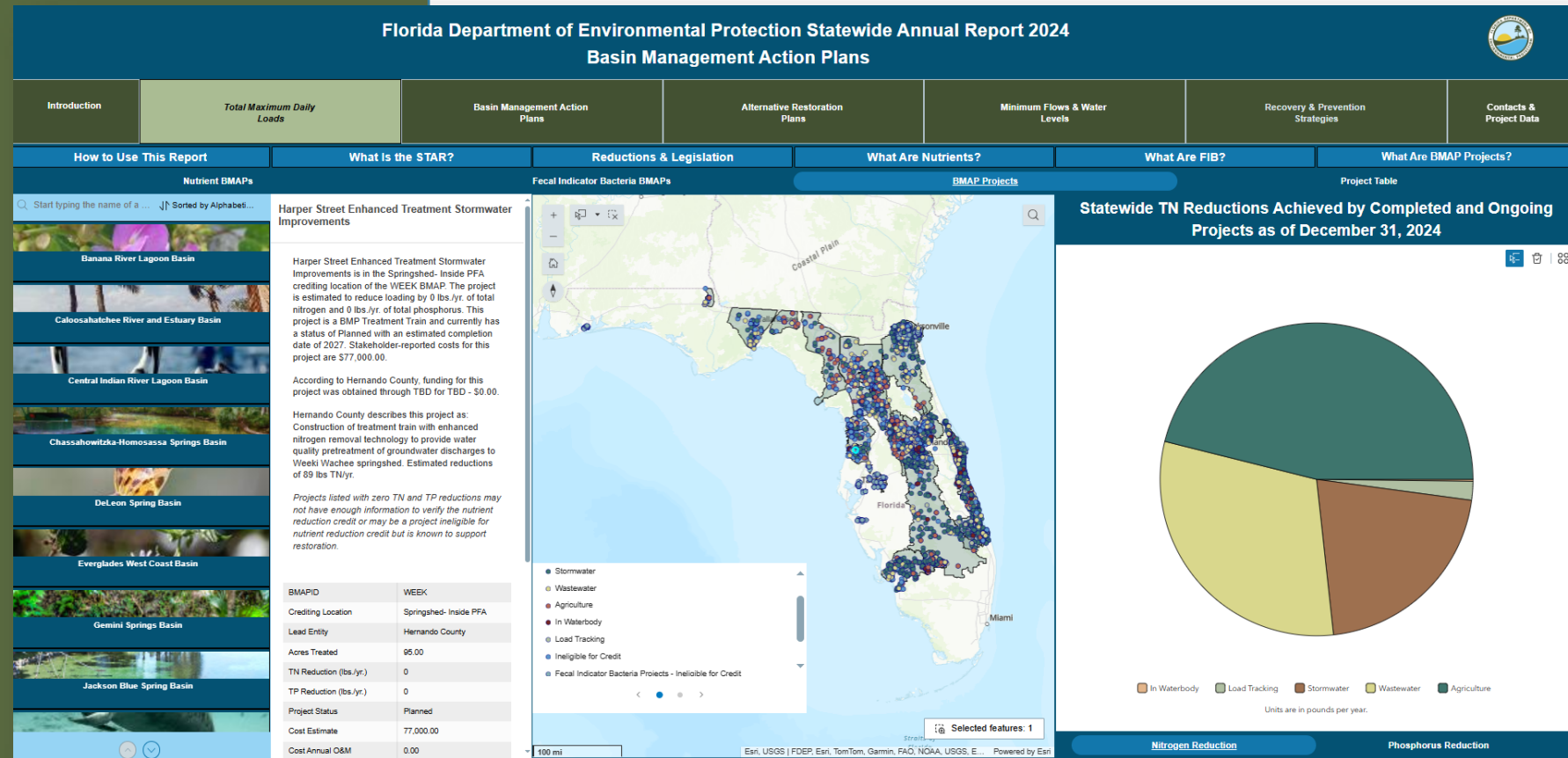
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STAR PROJECT REPORTING

What is the STAR?

- Summarizes accomplishments in the BMAPs statewide.
- Reports on restoration projects and management strategies.
- Published July 1 of each year.
- STAR 2024 reports on project statuses through Dec. 31, 2024.





BMAP PROJECTS

COUNT OF PROJECTS BY BMAP

BMAP Name	2023 Number of Projects	2024 Number of Projects
Homosassa Chassahowitzka Springs	76	78
Crystal River/Kings Bay	77	77
Silver River/Rainbow Springs*	494	508
Weeki Wachee Springs	95	102
Total	742	765

*Silver – 2023: 314 / 2024: 324
Rainbow – 2023: 180 / 2024: 184



BMAP PROJECTS

PROJECTS BY TYPE - BMAPs COMBINED

Project Type Category	2023 Number of Projects	2024 Number of Projects
Agriculture	80	82
In Waterbody	7	7
Land Acquisition/Conservation — Ineligible for Credit	31	31
Load Tracking	1	1
Nutrient Studies, Monitoring and Enhanced Education — Ineligible for Credit	119	122
Stormwater	278	284
Stormwater — Nutrient Projects Ineligible for Credit	8	8
Wastewater	181	186
Wastewater — Nutrient Projects Ineligible for Credit	37	44
Total	742	765



BMAP PROJECTS

PROJECTS BY TYPE – BY BMAP

Project Type Category	Rainbow Springs		Crystal River/Kings Bay		Weeki Wachee		Homosassa Chassahowitzka Springs	
	2023 Number of Projects	2024 Number of Projects	2023 Number of Projects	2024 Number of Projects	2023 Number of Projects	2024 Number of Projects	2023 Number of Projects	2024 Number of Projects
Agriculture	17	17	5	5	7	7	6	6
In Waterbody			3	3	2	2	1	1
Land Acquisition/Conservation — Ineligible for Credit	4	4	-	-	-	-	-	-
Load Tracking			-	-	-	-	-	-
Nutrient Studies, Monitoring and Enhanced Education — Ineligible for Credit	27	27	17	17	29	30	22	22
Stormwater	87	88	17	17	26	27	20	22
Stormwater — Nutrient Projects Ineligible for Credit	2	2	2	2	-	-	-	-
Wastewater	36	37	30	30	27	31	26	26
Wastewater — Nutrient Projects Ineligible for Credit	7	9	3	3	4	5	1	1
Total	180	184	77	77	95	102	76	78



BMAP PROJECTS

PROJECT STATUS – BY BMAP

Project Status	2023				2024			
	Homosassa Chassahowitzka Springs	Crystal River/Kings Bay	Rainbow	Weeki Wachee Springs	Homosassa Chassahowitzka Springs	Crystal River/Kings Bay	Rainbow	Weeki Wachee Springs
Completed	25	34	90	36	26	35	97	41
Ongoing	12	7	20	16	14	7	20	16
Planned	12	20	21	18	12	18	22	21
Underway	19	10	29	11	18	11	23	10



BMAP PROJECTS

ACHIEVED REDUCTIONS – BY BMAP

BMAP	2023 TN Reductions (lbs/yr) for Completed and Ongoing Projects	2024 TN Reductions (lbs/yr) for Completed and Ongoing Projects*
Weeki Wachee	107,247	110,094
Crystal River/Kings Bay	11,632	6,160
Homosassa/ Chassahowitzka	2,347	2,347
Silver River and Rainbow Springs ⁺	60,111	68,141

*Projects through Dec. 31, 2024

⁺ Silver – 2023: 53,106 TN lbs/yr / 2024: 54,676 TN lbs/yr

Rainbow – 2023: 7,005 TN lbs/yr / 2024: 13,465 TN lbs/yr



Source:

[Weeki Wachee Springs, Hernando County | WaterMatters.org](https://www.watermatters.org/)



BMAP PROJECTS

ESTIMATED REDUCTIONS – BY BMAP



Source:
[Weeki Wachee Springs, Hernando County | WaterMatters.org](https://www.watermatters.org/)

BMAP	2024 Estimated TN Reductions (lbs/yr) for Planned and Underway Projects
Weeki Wachee	84,567
Crystal River/Kings Bay	141,146
Homosassa/ Chassahowitzka	65,900
Silver River and Rainbow Springs*	208,745

* Silver – 2024: 113,514. TN lbs/yr
Rainbow – 2024: 95,230 TN lbs/yr



PROJECTS

HB 1379 (2023) REQUIREMENTS

- Within a BMAP, it is critical that entities plan for and report projects and project updates to the state through the Statewide Annual Report (STAR) process.
- All projects needed to fulfill milestones should be included in the STAR, even if a funding source has not been identified.
- Reporting projects in the STAR allows the state to evaluate funding needs and prioritize projects to promote maximum environmental benefit and to meet milestones.
- Where entity allocations and milestones do not already exist, they will be added in the 2025 BMAP update or another BMAP update after completion of updated modeling. Interim management strategies will be included in the 2025 update for these BMAPs.



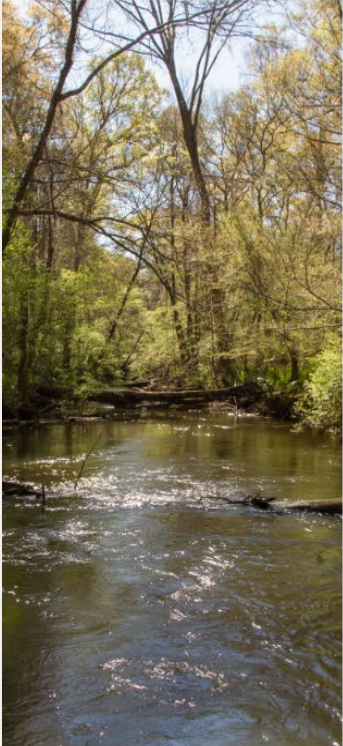





2024 STAR

The Statewide Annual Report 2024

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 2024 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. This application does not scale well on mobile devices and is optimized for viewing on larger format screens.



As required by section 403.0675, Florida Statutes, and to report on additional restoration efforts, this report updates the status of protection and restoration actions through total maximum daily loads (TMDLs); basin

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



THANK YOU

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