



Webinar Housekeeping

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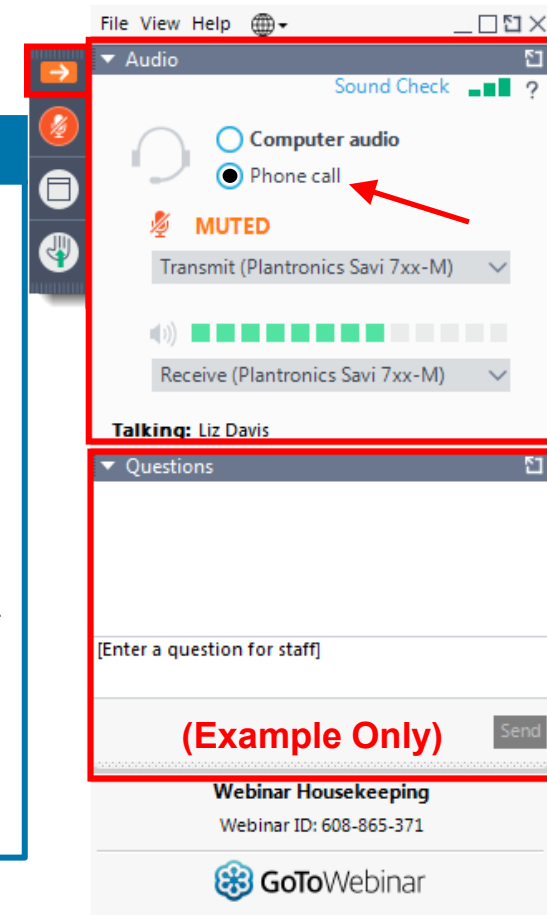
- Choose Computer Audio or
- Choose Phone Call and dial using the information provided with your registration

Attendee audio will automatically be muted.

Submit questions and comments via the **Questions** panel.

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Note: Today's presentation is being recorded and will be provided on the file transfer protocol (FTP) site after the webinar.





Upper Ocklawaha Basin Management Action Plan (BMAP) Annual Meeting

Jessica Fetgatter
Division of Environmental Assessment and
Restoration
June 22, 2022



Agenda

- Welcome
- BMAP Background and Update
- Statewide Annual Report
- Clean Waterways Act Requirements
- St. Johns River Water Management District Updates (SJRWMD)
- Florida Department of Agriculture and Consumer Services (FDACS) Updates
- Unenrolled Agricultural Producer Enforcement



Then and Now

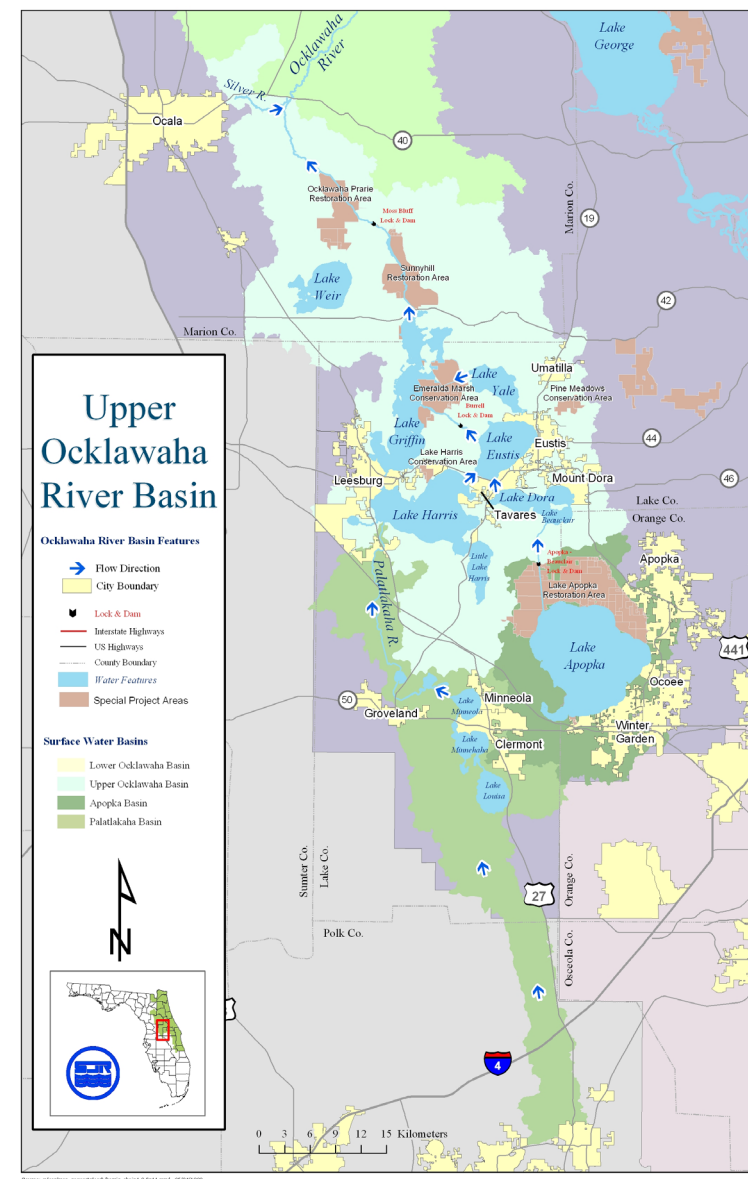
Background

Annual Progress



Upper Ocklawaha River Basin

- Initial adoption 2007
- Amendment adoption 2019





Annual Progress

Estimated Reductions

Waterbodies	TP Required Reductions (lbs/yr)	TP Reductions Achieved (lbs/yr)	Percent Completed
Lake Apopka	108,258	110,780	100%
Lake Beauclair	40,940	294	0.7%
Lake Dora	33,419	1,697	5.1%
Lake Carlton	283	217	76.7%
Lake Harris	3,890	8,496	100%
Lake Eustis	22,757	2,584	11.4%
Lake Yale	848	1,157	100%
Lake Griffin	55,196	44,117	79.9%



Annual Progress

Estimated Reductions Cont.

Waterbodies	TP Required Reductions (lbs/yr)	TP Reductions Achieved (lbs/yr)	Percent Completed	TN Required Reductions (lbs/yr)	TN Reductions Achieved (lbs/yr)	Percent Completed
Trout Lake	1,477	3,316	100%	14,432	16,108	100%
Lake Denham	911	17	1.9%	26,287	0	0
Lake Roberts	39	4	10.3%	320	0	0
Marshall Lake	213	17	8%	1,090	0	0
Palatlakaha River	589	2,729	100%	908	7,164	100%



Status of Projects

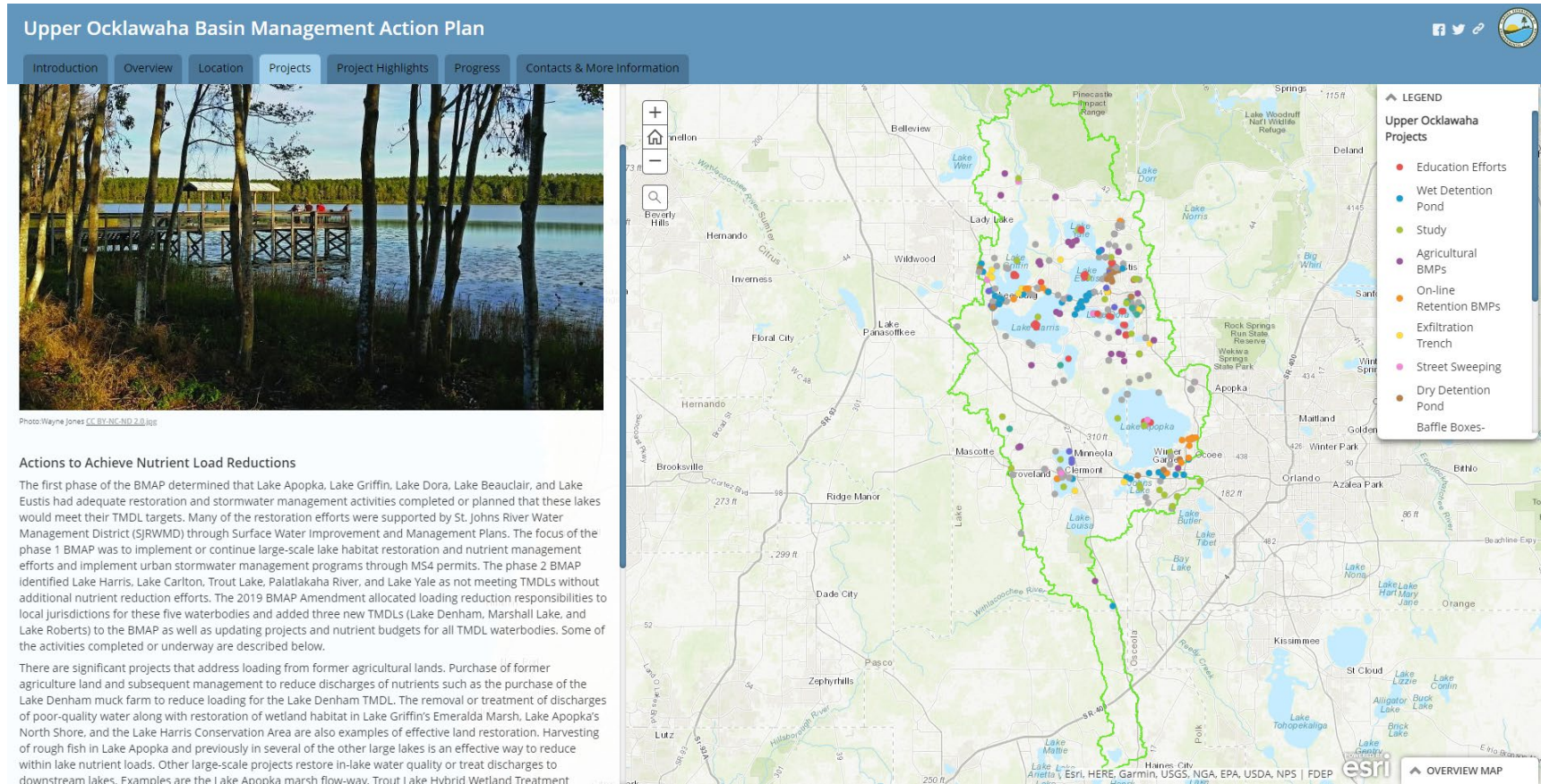
Through December 31, 2021

Lead Entity	Completed	Ongoing	Planned	Underway	Total
City of Apopka	3	6	0	0	9
City of Clermont	8	3	1	0	13
City of Eustis	25	8	1	6	41
City of Fruitland Park	1	2	0	2	5
City of Groveland	4	2	0	0	6
City of Leesburg	15	6	5	2	29
City of Minneola	3	2	0	0	5
City of Mount Dora	23	3	0	0	27
City of Ocoee	10	1	0	0	11
City of Tavares	5	6	0	0	11
City of Umatilla	7	4	0	2	16
City of Wildwood	0	1	0	0	1
City of Winter Garden	6	2	0	2	10
DEP	1	0	0	0	1
FDACS	14	16	0	0	31
FDOT District 5	46	20	0	0	67
Howey-in-the Hills	2	1	0	1	4
Lake County	49	29	7	3	91
Lake County Parks	1	0	0	0	1
LCWA	7	1	1	2	12
Marion County	1	5	0	1	7
Orange County	15	11	2	5	35
SJRWMD	56	1	0	8	65
Town of Lady Lake	1	6	0	1	8
Total	303	136	17	35	491



Status of Projects

Story Map

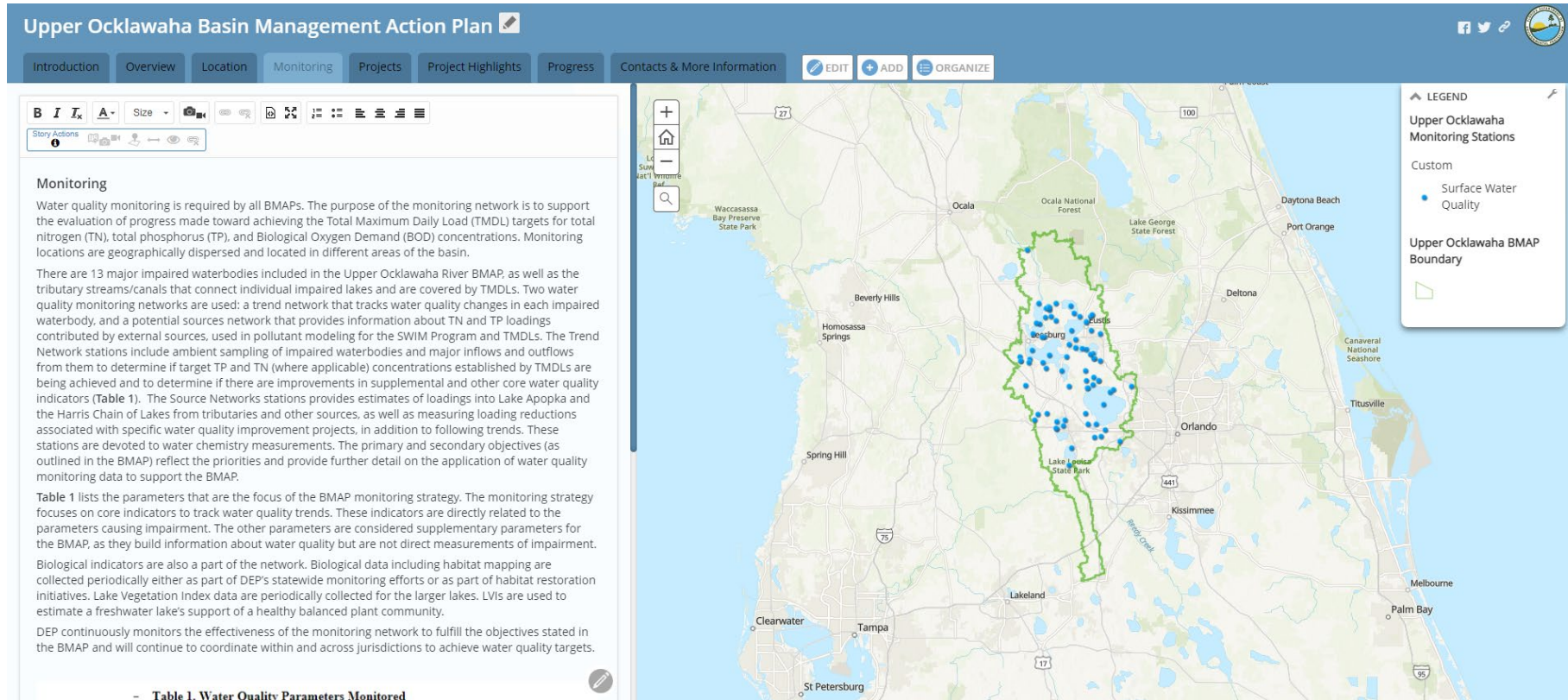


<https://fddep.maps.arcgis.com/apps/MapSeries/index.html?appid=024373c35b644923a461cdd20d177ee5>



Story Maps

Monitoring



- Table 1. Water Quality Parameters Monitored





Statewide Annual Report (STAR)

STAR Background and Webpage

STAR 2021 Progress and Timeline

BMAP Project Collection Portal



STAR Background and Webpage

<https://floridadep.gov/STAR>

Florida Statewide Annual Report
Published June 30, 2021

Introduction Total Maximum Daily Loads **Basin Management Action Plans** Minimum Flows and Minimum Water Levels Recovery and Prevention Strategies Contacts and Data

Troubleshooting

Basin Management Action Plans

A basin management action plan (BMAP) is a framework for water quality restoration that contains local and state commitments to reduce pollutant loading through current and future projects and strategies. BMAPs contain a comprehensive set of solutions, such as permit limits on wastewater facilities, urban and agricultural best management practices, and conservation programs designed to achieve pollutant reductions established by a total maximum daily load (TMDL). These broad-based plans are developed with local stakeholders and rely on local input and commitment for development and successful implementation. BMAPs are adopted by Florida Department of Environmental Protection (DEP) Secretarial Order and are legally enforceable.

Navigation

Select any of the following sections for additional information about BMAPs. Clicking on the dots in the column to the left of the page links you to these same sections and clicking on the home icon returns you to the top of this page.

- Northern Everglades and Estuaries Protection Program BMAPs
- Outstanding Florida Sources (OFS) BMAPs
- Additional Nutrient BMAPs
- Fecal Indicator Bacteria BMAPs**
- Alternative Restoration Approaches

How to Use This Report

The management actions listed in the BMAPs comprise local projects proposed and committed to by counties, municipalities, special districts, private industrial facilities, wastewater utilities, commercial agricultural operations, state agencies, and other stakeholders. In 2020, DEP contacted stakeholders in all BMAP areas to request information on the status of projects through December 31, 2020. The tables throughout this report contain updates on existing projects, as well as information about new or planned projects, provided by the responsible entities. In some cases, the information provided by the entity was incomplete, no update was provided, or the project was completed some time ago and the entity could not easily obtain records.

The terms used throughout the project tables are defined as follows:

- Not provided: Information was requested by DEP but was not provided by the lead entity.
- TBD: To be determined. Information is not currently available but will be provided by the lead entity when it is available.
- N/A: Not applicable. Information is not relevant to the project.
- 0: Zero. The numeric value is zero.

The designations for project status used in the tables are as follows:

- Cancelled: Project or activity was planned but will no longer take place. This includes the cessation of ongoing activities.
- Completed: Project, activity, or task is finished and is providing water quality benefits.
- Planned: Project or activity is conceptual or proposed.
- Underway: Project or activity has commenced or has been initiated but is not completed and is not yet reducing nutrient loads from the treated area.
- Ongoing: Project or activity which requires action each year to continue providing water quality benefits. These projects are typically non-structural and continuous.

Additional terms of note:

Florida Statewide Annual Report
Published June 30, 2021

Introduction Total Maximum Daily Loads **Basin Management Action Plans** Minimum Flows and Minimum Water Levels Recovery and Prevention Strategies Contacts and Data

Basin Management Action Plans

The Orange Creek BMAP also included projects to address fecal coliform TMDLs for urban streams. From 2008 through 2014, a monitoring, evaluation, and remediation protocol adopted for fecal coliform bacteria has resulted in a 59%, 9%, and 25% reduction in the rate of exceedances of fecal coliform standards for Hogtown Creek, Sweetwater Branch, and Tumbler Creek, respectively, compared with their exceedance rates at the time of TMDL adoption.

Orange Creek Story Map

Upper Ocklawaha BMAP

Background

The Upper Ocklawaha River Basin covers an area of 878 square miles and includes the watersheds for the Harris Chain of Lakes, Lake Apopka, Lake Griffin, and the Palatka River (Clermont Chain of Lakes), as well as stream segments that connect the lakes. The basin is located largely in Lake County.

The BMAP addresses TMDLs for 13 waterbodies. DEP identified Lake Apopka, Lake Beauclair, Lake Carlton, Lake Dora, Lake Eustis, Lake Griffin, Lake Harris/Little Lake Harris, Lake Yale, the Palatka River (north of State Road 50), and Trout Lake as impaired for TP and adopted individual TP TMDLs in 2003 for all but Trout Lake, for which a TMDL was adopted in 2006. DEP identified Lake Denham, Lake Roberts, and Marshall Lake as impaired for TP and adopted TP TMDLs in 2017. The focus of restoration efforts in the basin is the reduction and management of TP loading. In Lake Denham, Lake Roberts, Marshall Lake, the Palatka River, and Trout Lake, TN contributes to the problem, and BOD is also identified as a pollutant contributing to the impairment in the Palatka River. Priority waterbodies include Lake Carlton, Lake Harris, and Lake Yale, the Palatka River, and Trout Lake.

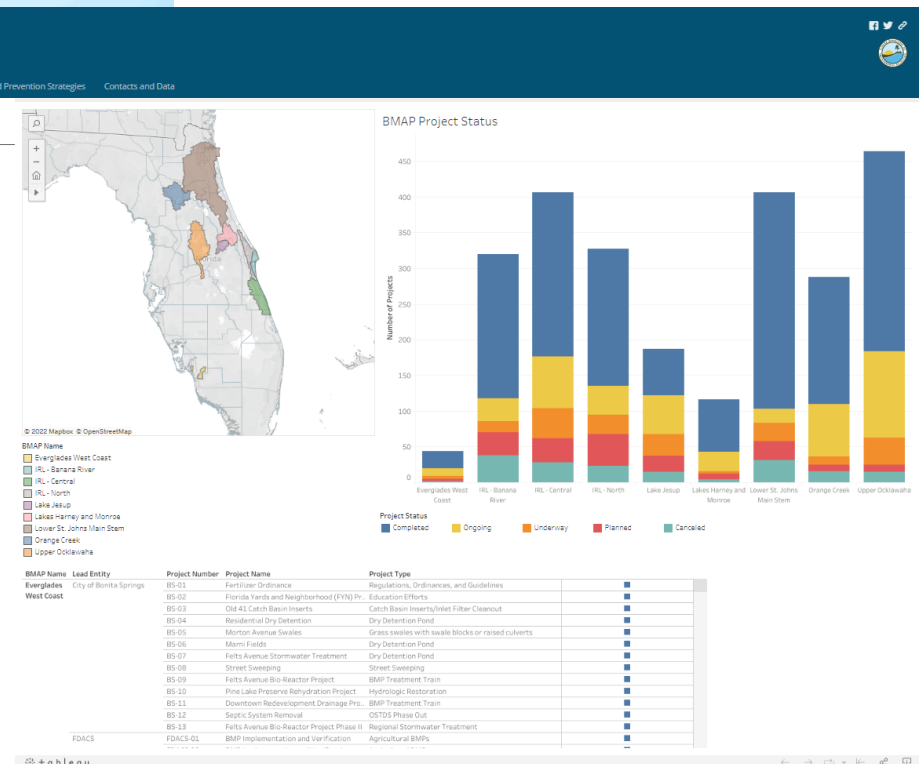
Status of Projects

Through December 31, 2020, 280 projects were completed and 121 activities are listed as ongoing. An additional 48 projects were identified as underway or planned. The projects completed to date are estimated to achieve total reductions of:

- 119,001 lbs/yr of TP for Lake Apopka,
- 199 lbs/yr of TP for Lake Beauclair,
- 216 lbs/yr of TP for Lake Carlton,
- 17 lbs/yr of TP for Lake Denham,
- 1,693 lbs/yr of TP for Lake Dora,
- 2,584 lbs/yr of TP for Lake Eustis,
- 42,772 lbs/yr of TP for Lake Griffin,
- 8,459 lbs/yr of TP for Lake Harris,
- 2 lbs/yr of TP for Lake Roberts,
- 1,125 lbs/yr of TP for Lake Yale,
- 17 lbs/yr of TP for Marshall Lake,
- 6,969 lbs/yr of TN and 2,691 lbs/yr of TP for the Palatka River,
- 16,105 lbs/yr of TN and 3,316 lbs/yr of TP for Trout Lake,
- 2,854 lbs/yr of TN and 566 lbs/yr of TP for Upper Ocklawaha.

Upper Ocklawaha Story Map

Fecal Indicator Bacteria BMAPs





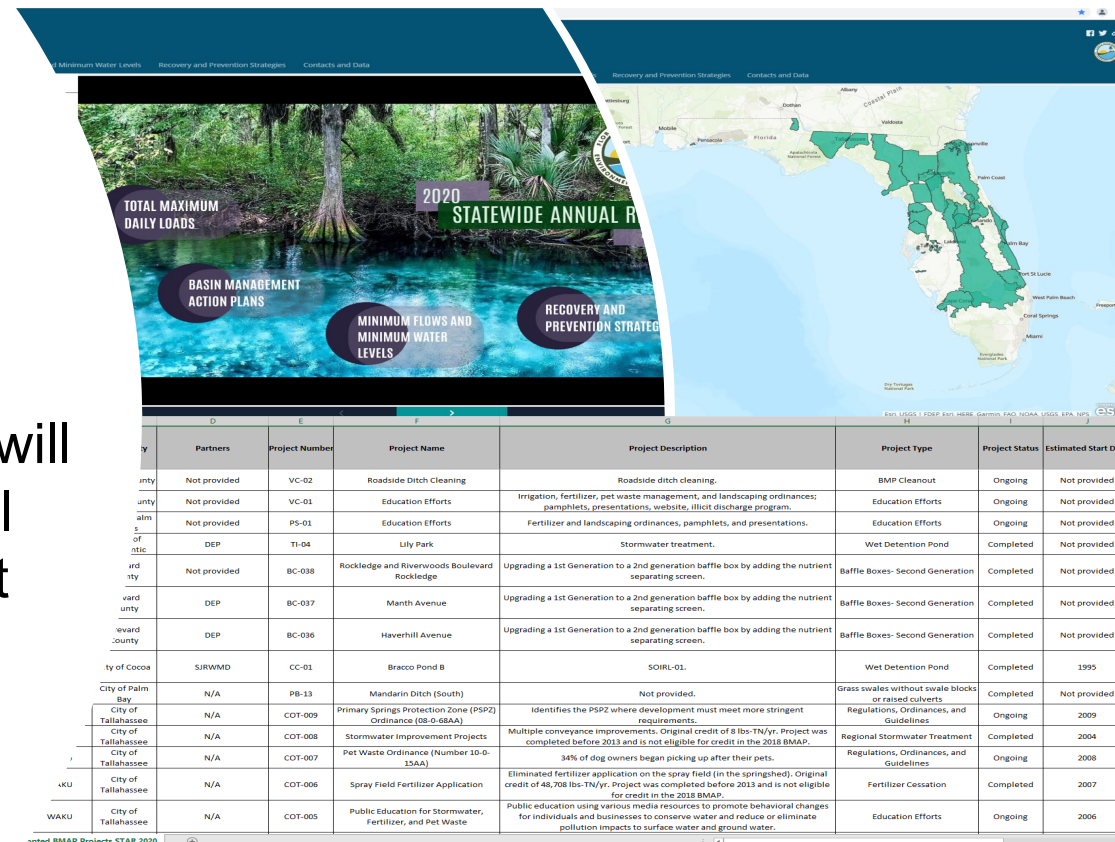
STAR Progress and Timeline





BMAP Project Collection Portal

- 2015 began STAR
- Portal Pilot testing ran November 2021 – 2022
- For STAR 2022, all entities will be required to use the portal to review and submit project updates

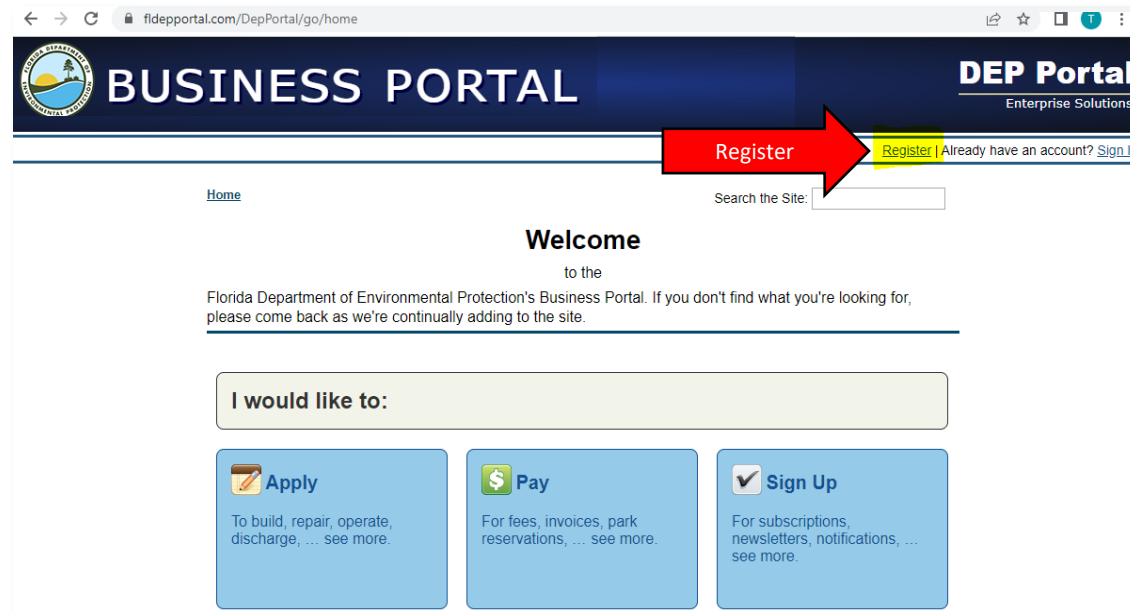




BMAP Project Collection Portal

Timeline

- Stakeholders need to register in the DEP Business Portal as soon as possible, but no later than **July 31st**
- Trainings will be held in October
- Portal will open in mid-November for project updates
- BMAP project updates will be due in the **DEAR – Restoration Project Data Portal** no later than January 13, 2023





BMAP Project Collection Portal



Go
to <https://www.fldepportal.com/DepPortal/go/home>
or follow the QR Code above to register.





What's Next?

Clean Waterways Act Requirements

Update by July 1, 2025

2027 = 20 years for Orange Creek BMAP!

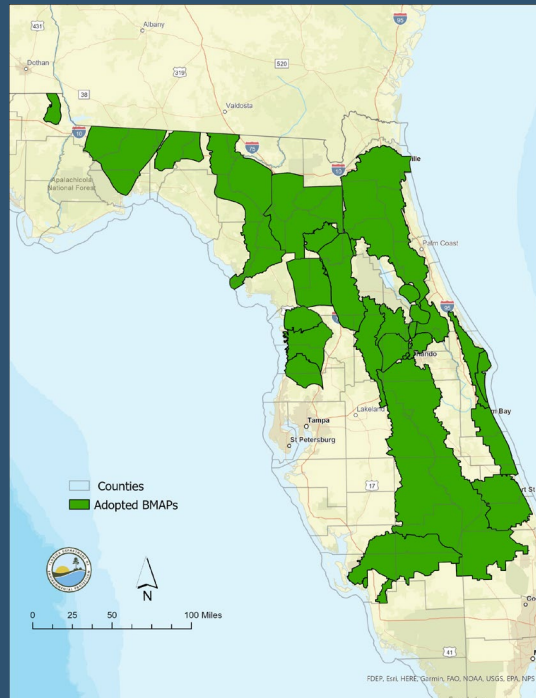


Clean Waterways Act Requirements

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

Nutrient BMAPs



Adopted by July 1, 2025

You can view our Clean Waterways Act Requirements webinar materials [here](#).

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



Nutrient loading and water quality in upper Ocklawaha basin lakes

Jian Di

Bureau of Water Resources

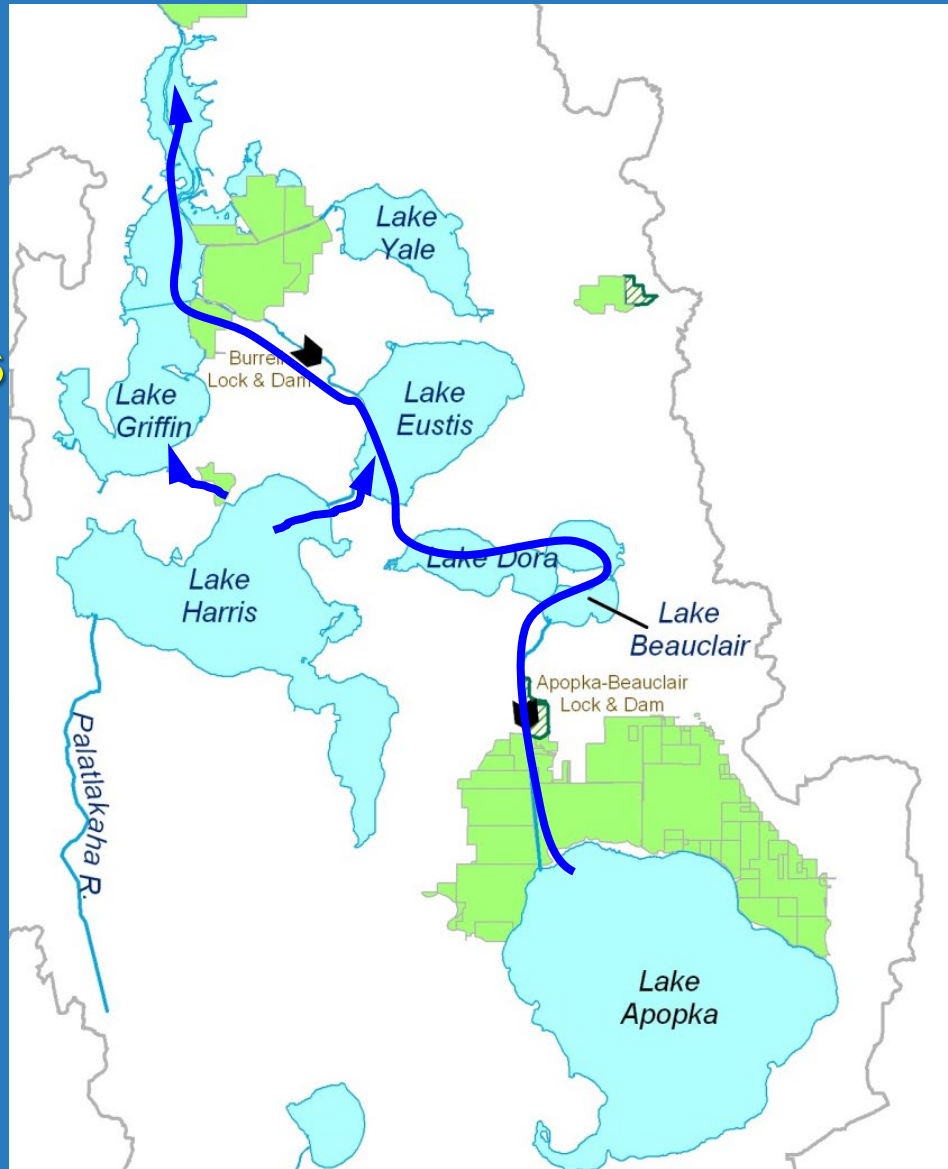
St. Johns River Water Management District

Palatka, Florida

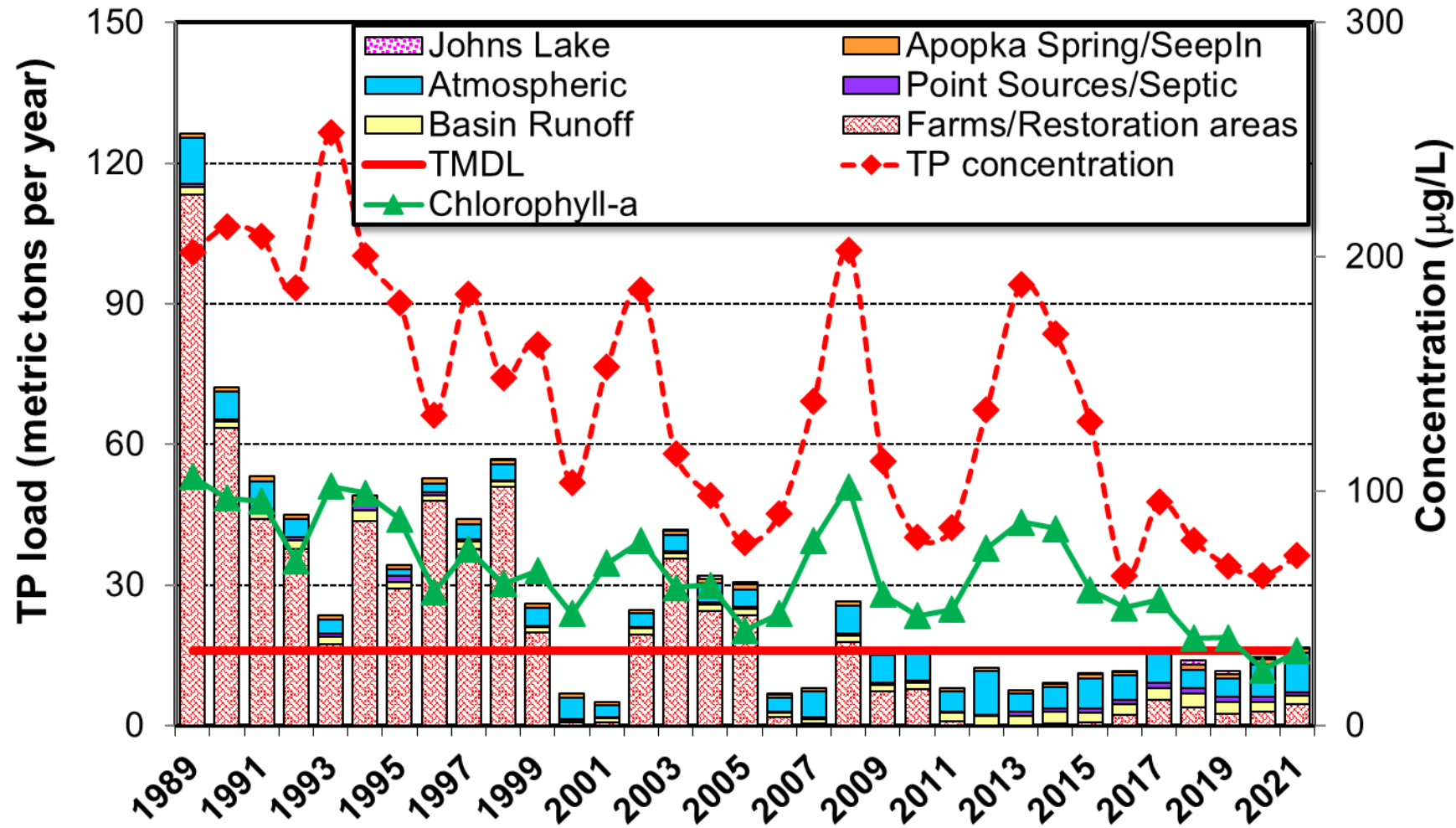
idi@sjrwmd.com



Ocklawaha Chain of Lakes



Lake Apopka estimated annual external total phosphorus loads, and concentrations of TP and chlorophyll-*a*

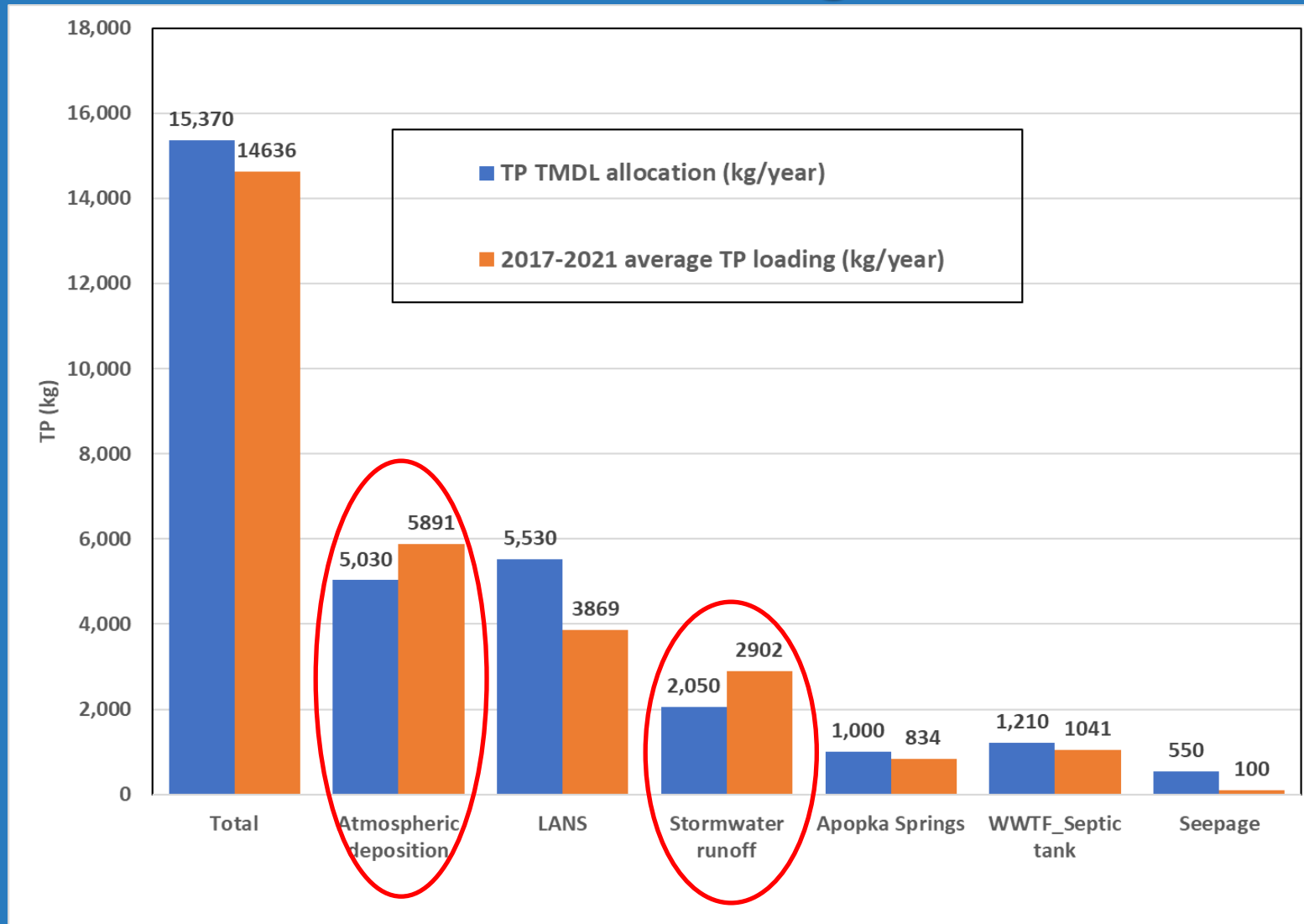


Loading Sources	% of total loading (2017 -2021 average)
Atmospheric	40
Farms/restoration areas	26
Basin Stormwater runoff (include Johns Lake)	20
Point source	7
Springs and seepage	6

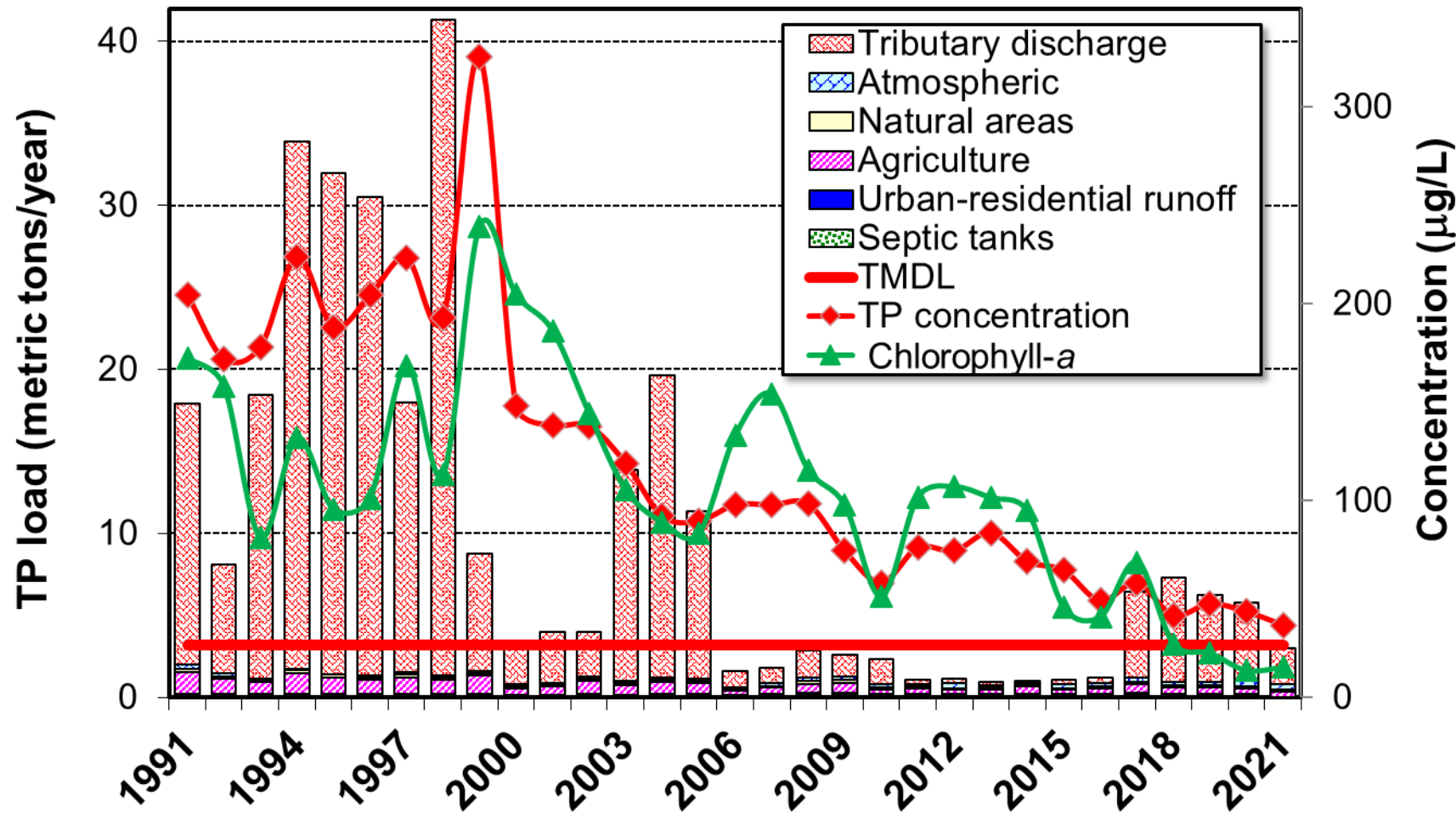
	TMDL target	2021 annual average	2017-2021 average
TP ($\mu\text{g/L}$)	55	73	76
Chl-a ($\mu\text{g/L}$)		32	37

TP annual loading (mt/year)	TMDL target	2021	2017-2021 average
	15.900	16.638	14.636

TMDL TP load allocation & 2017-2021 average loading by the TMDL allocation categories



Lake Beauclair estimated annual external total phosphorus loads, and concentrations of TP and chlorophyll-a

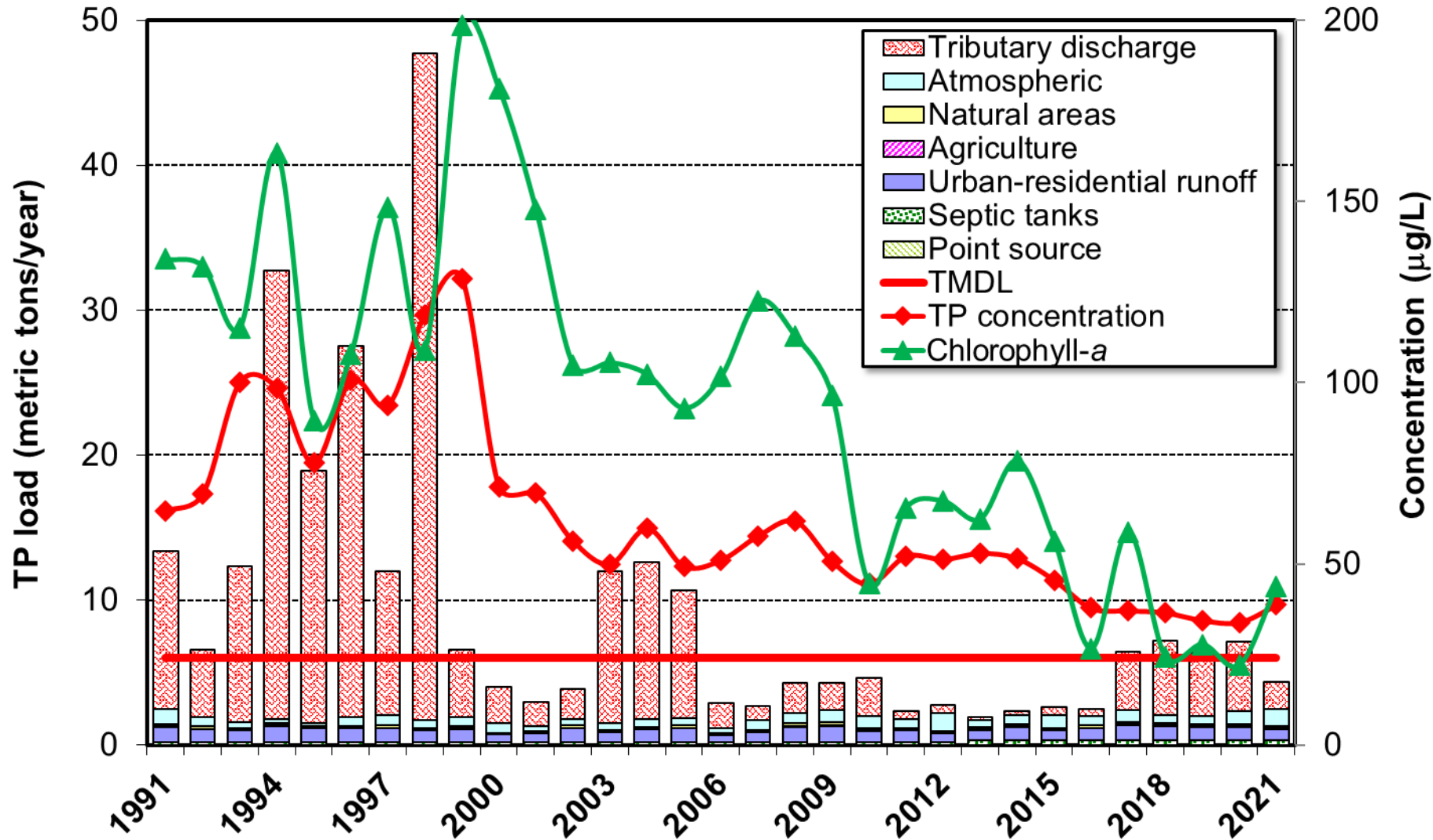


Loading Sources	% of total loading (2017 -2021 average)
Tributary (Apopka-Beauclair Canal)	83
Stormwater runoffs (Agriculture/Natural/Urban)	12(7/3/2)
Atmospheric deposition	4
Septic tanks	2

	TMDL target	2021 annual average	2017-2021 average
TP (mg/L)	32	37	46
Chl-a (mg/L)	30	15	30

TP annual loading (kg/year)	TMDL target	2021	2017-2021 average
	3,200	3,190	5,805

Lake Dora estimated annual external total phosphorus loads, and concentrations of TP and chlorophyll-a

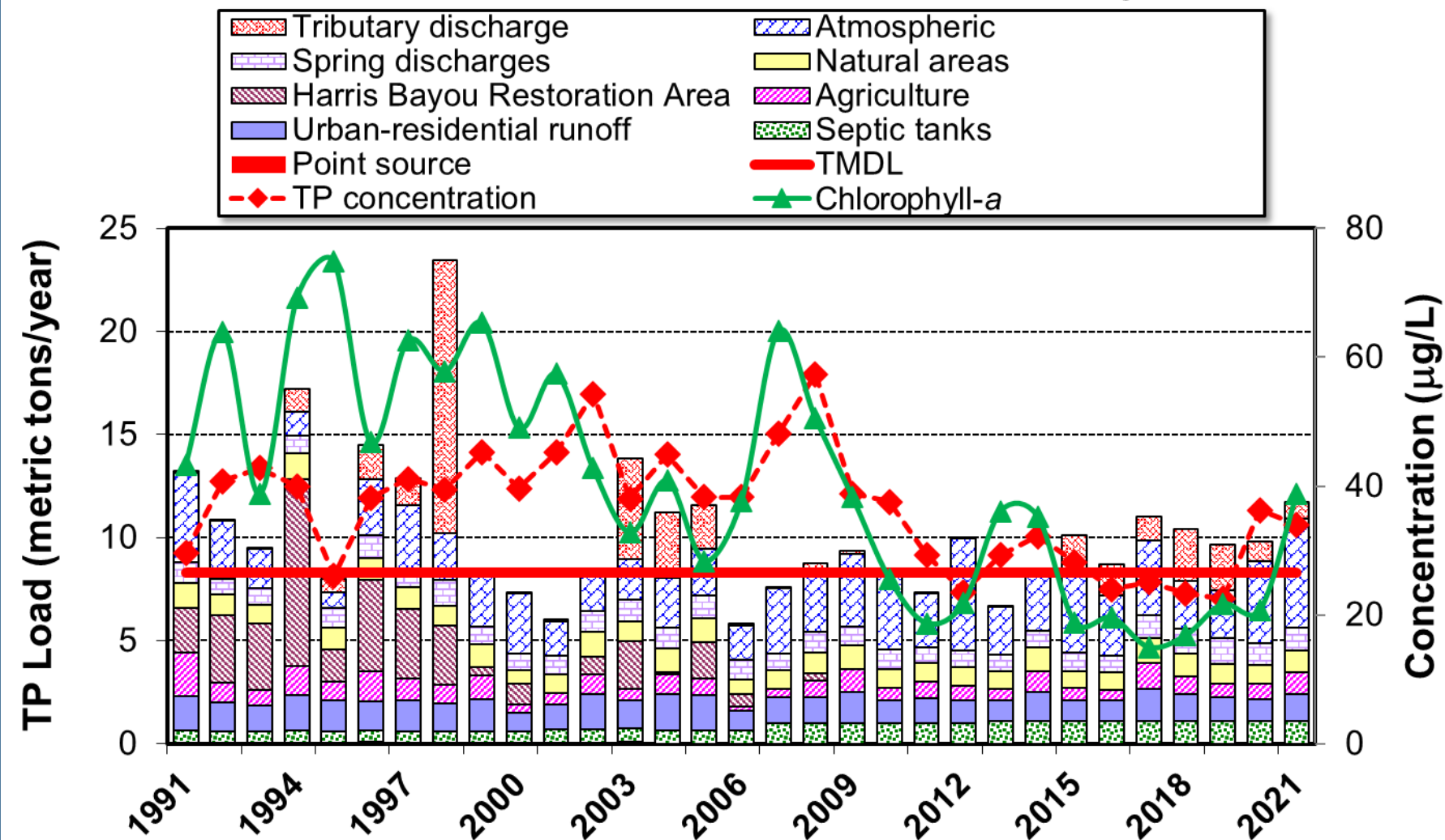


Loading Sources	% of total loading (2017 -2021 average)
Tributary -Lake Beauclair	64
Stormwater runoffs Urban/Natural/Agriculture)	19(15/3/0.7)
Atmospheric	13
Septic tanks	5

	TMDL target	2021 annual average	2017-2021 average
TP (µg/L)	31	38	36
Chl-a (µg/L)	29	44	35

TP annual loading (mt/year)	TMDL target 6.000	2021 4.370	2017-2021 average 6.311
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Lake Harris estimated annual external total phosphorus loads, and concentrations of TP and chlorophyll-a

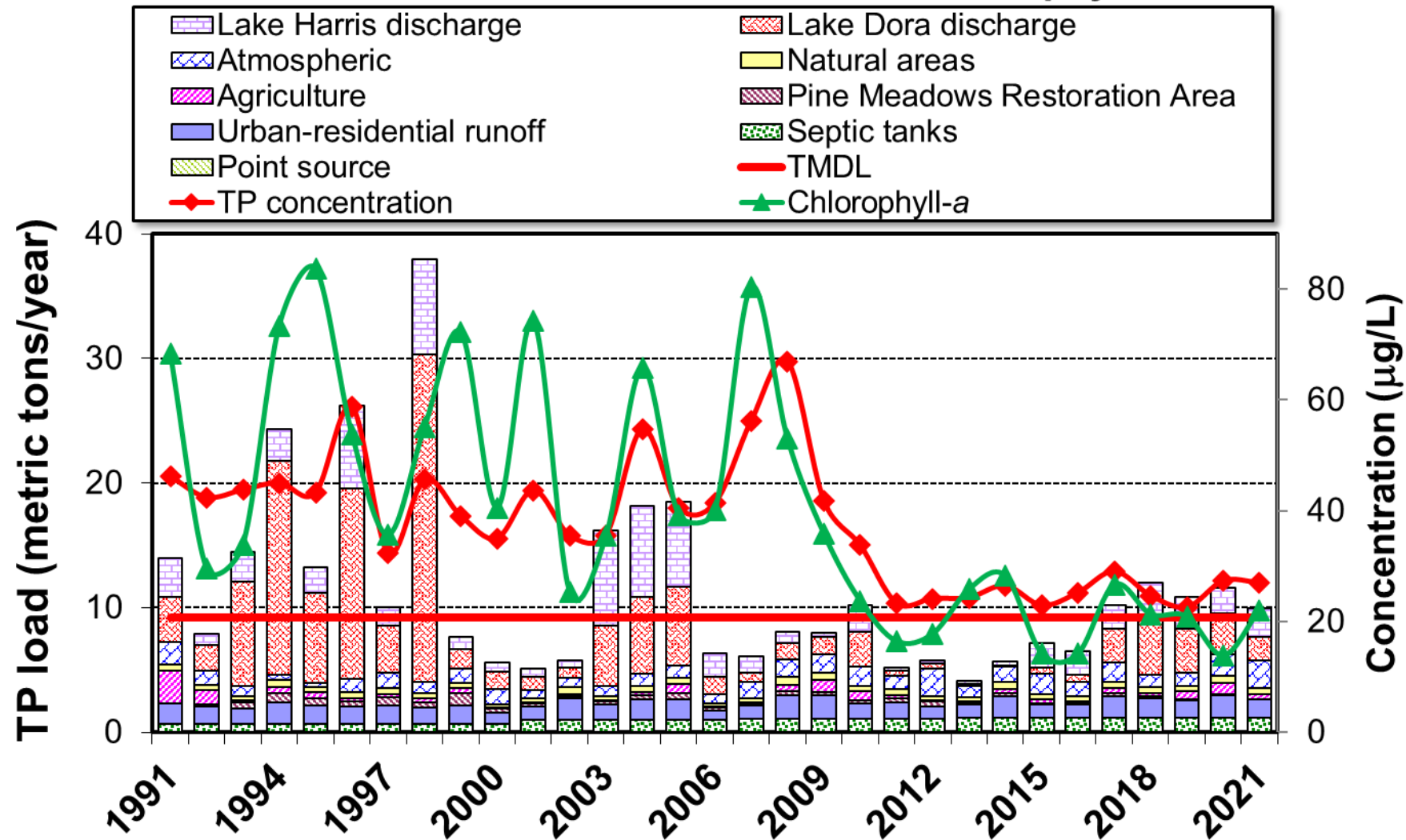


Loading Sources	% of total loading (2017 -2021 average)
Atmospheric	33
Stormwater runoffs Urban/Natural/Agriculture)	31(12/10/9)
Tributary discharge	15
Spring discharges	11
Septic tanks	10

	TMDL target	2021 annual average	2017-2021 average
TP (µg/L)	26	34	28
Chl-a (µg/L)	22	39	23
TP annual loading (mt/year)	TMDL target	2021	2017-2021 average
	8.300	11.720	10.529



Lake Eustis estimated annual external total phosphorus loads, and concentrations of TP and chlorophyll-a

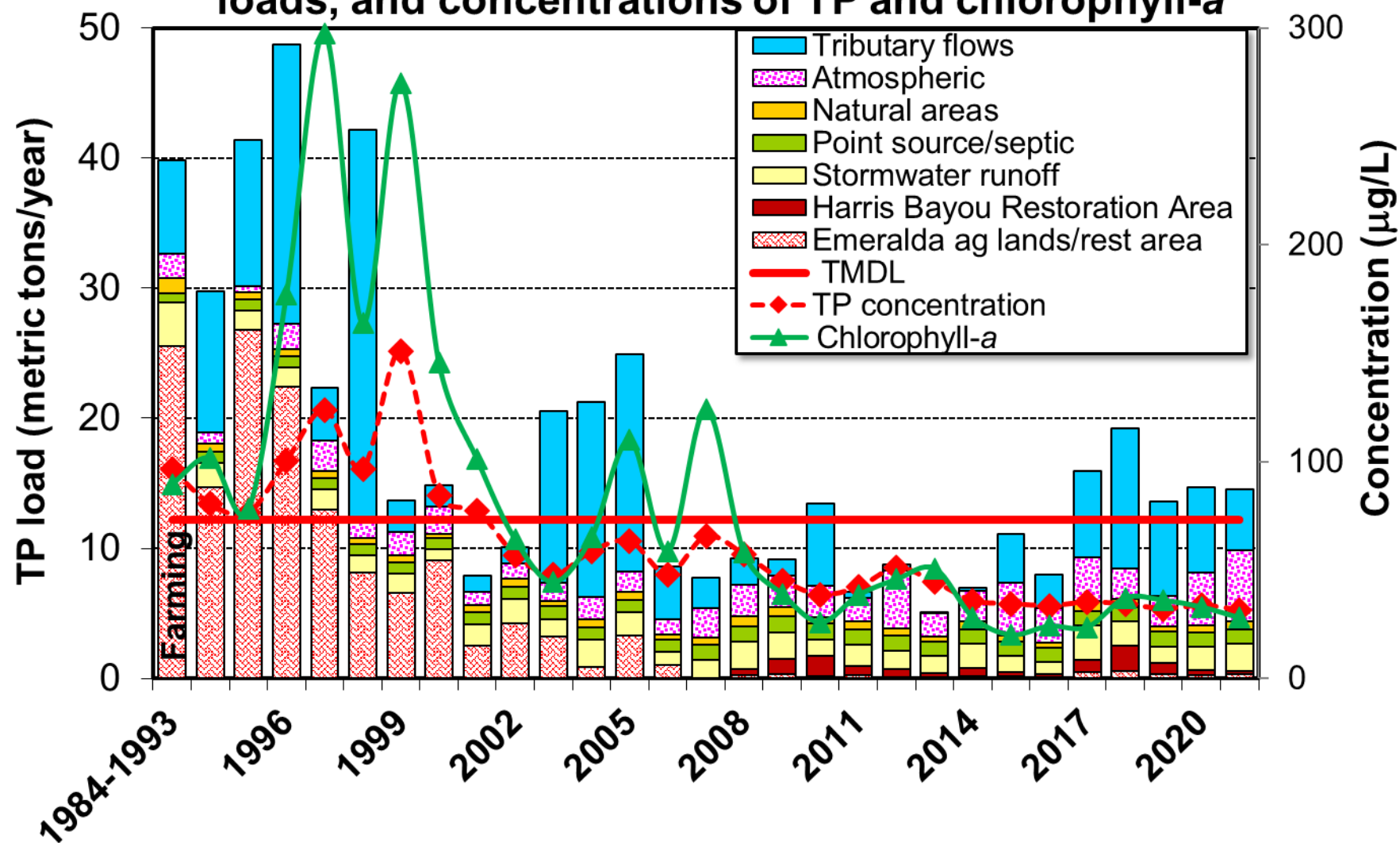


Loading Sources	% of total loading (2017 -2021 average)
Tributary (Dora/Harris)	51(29/22)
Stormwater runoffs Urban/Natural/Agriculture)	24(14/5/5)
Atmospheric	14
Septic tanks	11
Pine Meadows Restoration Area	1

	TMDL target	2021 annual average	2017-2021 average
TP ($\mu\text{g/L}$)	25	27	26
Chl-a ($\mu\text{g/L}$)	20	22	21

TP annual loading (mt/year)	TMDL target	2021	2017-2021 average
	9.200	9.958	10.932

Lake Griffin estimated annual external total phosphorus loads, and concentrations of TP and chlorophyll-a

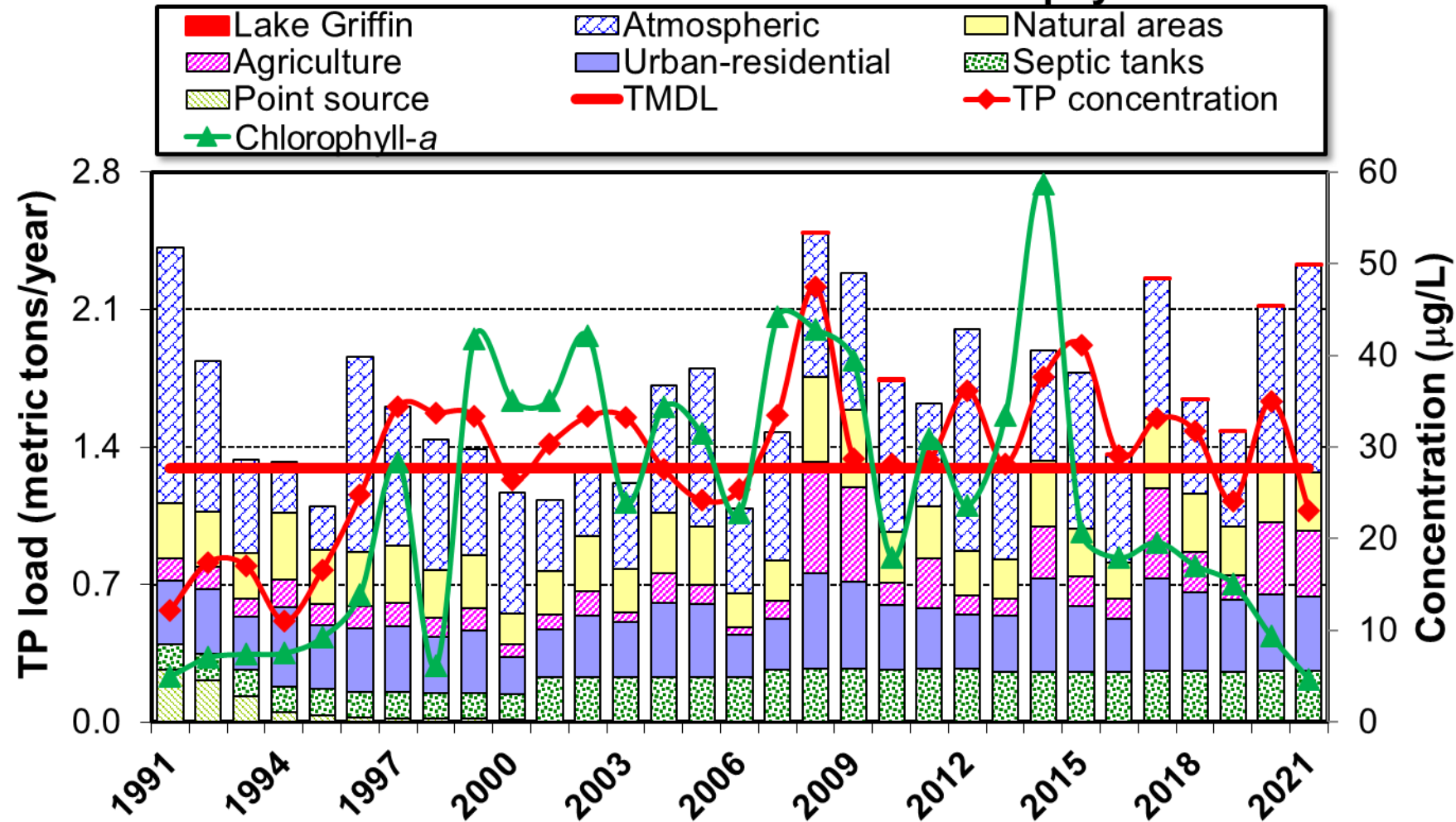


Loading Sources	% of total loading (2017 -2021 average)
(Eustis+Yale)/Harris Bayou	44/6
Atmospheric	24
Stormwater runoff	17
Point source/septic	7
Emeralda Marsh Conservation Area	3

	TMDL target	2021 annual average	2017-2021 average
TP ($\mu\text{g/L}$)	32	32	33
Chl-a ($\mu\text{g/L}$)	30	28	32

TP annual loading (mt/year)	TMDL target	2021	2017-2021 average
	12.200	14.543	14.965

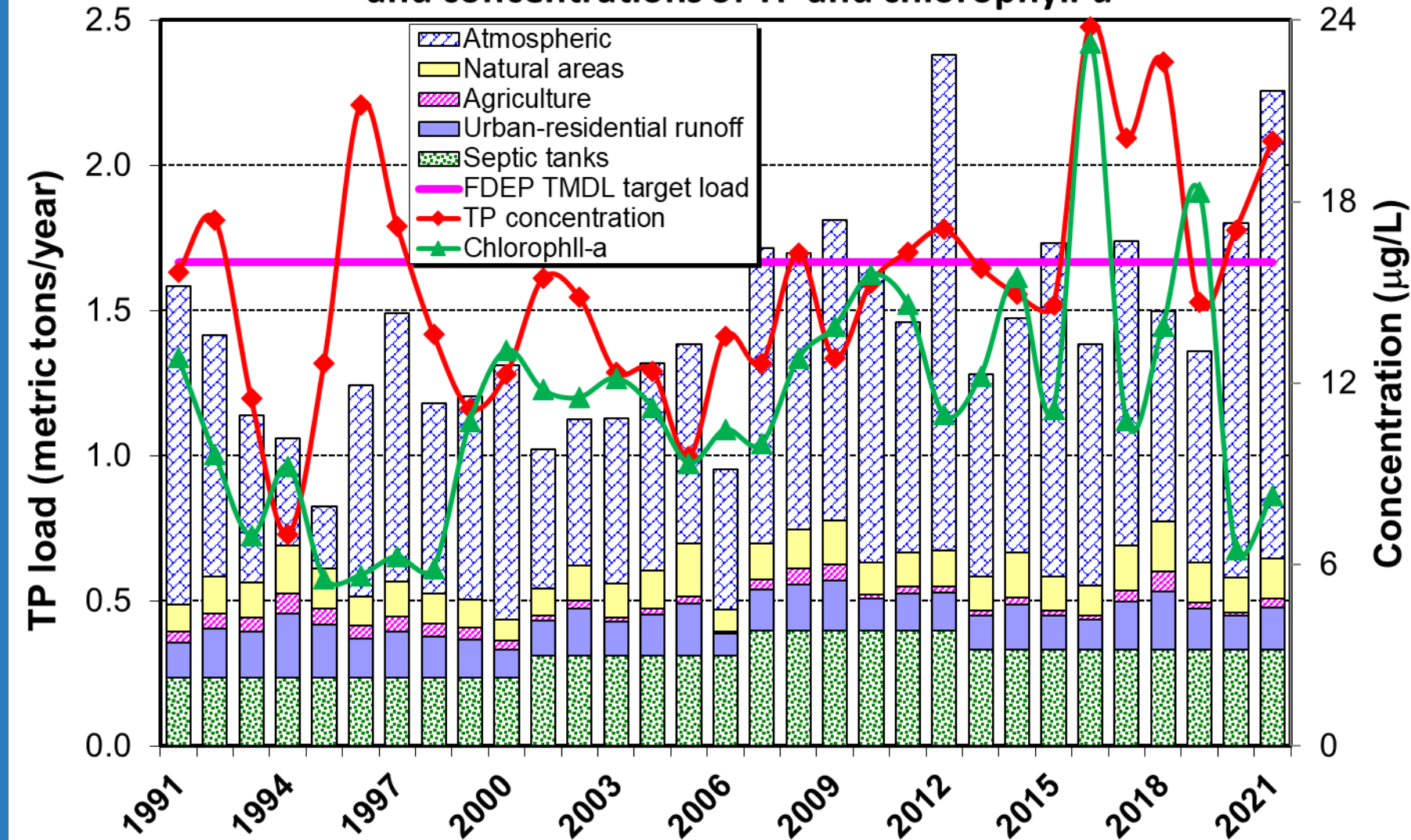
Lake Yale estimated annual external total phosphorus loads, and concentrations of TP and chlorophyll-a



Loading Sources	% of total loading (2017 -2021 average)
Stormwater runoffs Urban/Natural/Agriculture)	51(21/15/15)
Atmospheric	36
Septic tanks	13
Point source	0

	TMDL target	2021 annual average	2017-2021 average
TP (µg/L)	20	23	29
Chl-a (µg/L)	14	5	13
TP annual loading (mt/year)	TMDL target	2021	2017-2021 average
	1.290	2.328	1.965

Lake Weir estimated annual external total phosphorus loads and concentrations of TP and chlorophyll-*a*

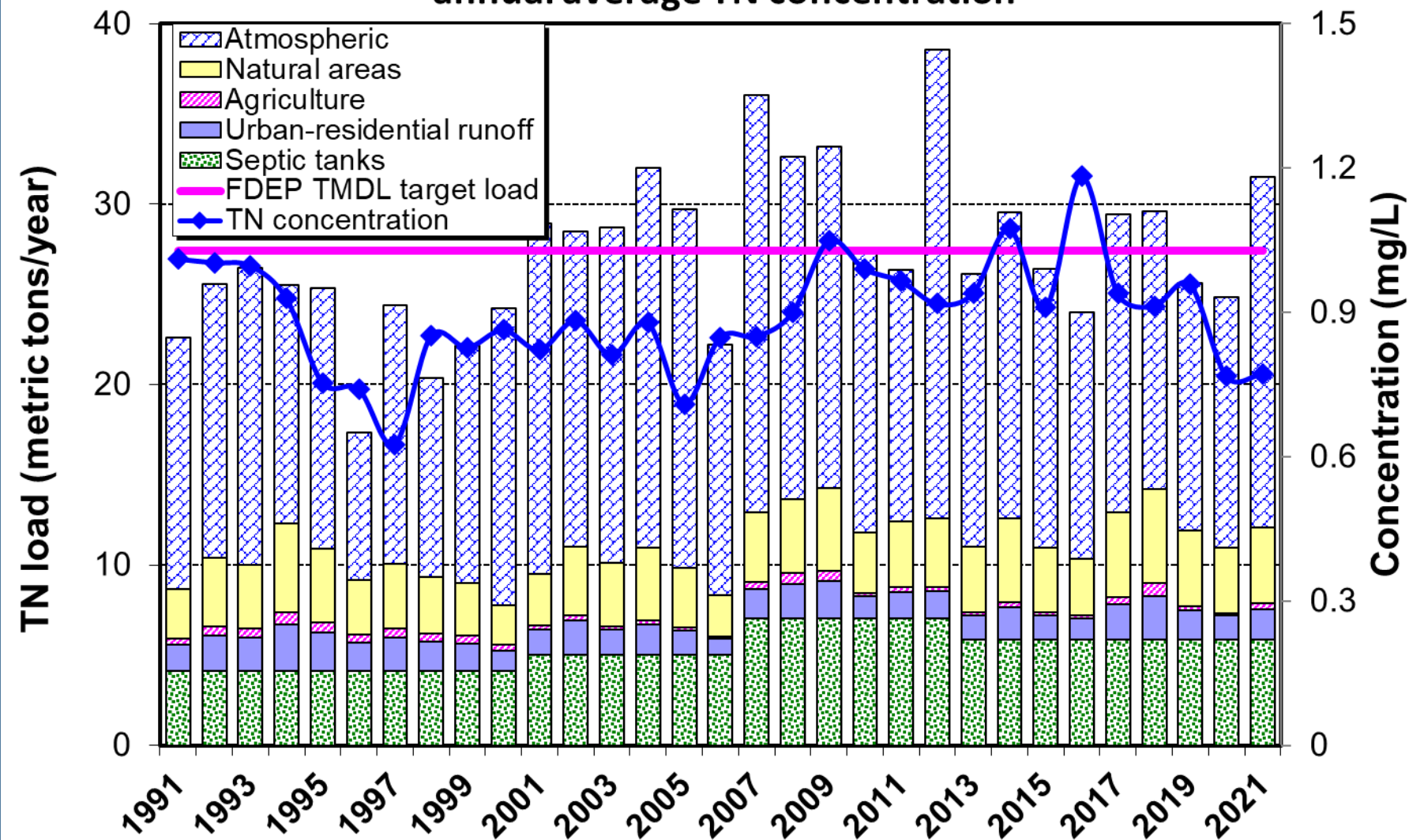


Loading Sources	% of total loading (2017 -2021 average)
Atmospheric	62
Stormwater runoffs Urban/Natural/Agriculture)	19(9/8/2)
Septic tanks	19

	TMDL target	2021 annual average	2017-2021 average
TP (µg/L)	10	20	19
Chl-a (µg/L)	6	8	12

TP annual loading (mt/year)	TMDL target 1.667	2021 2.256	2017-2021 average 1.731
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Lake Weir estimated annual external total nitrogen loads and annual average TN concentration



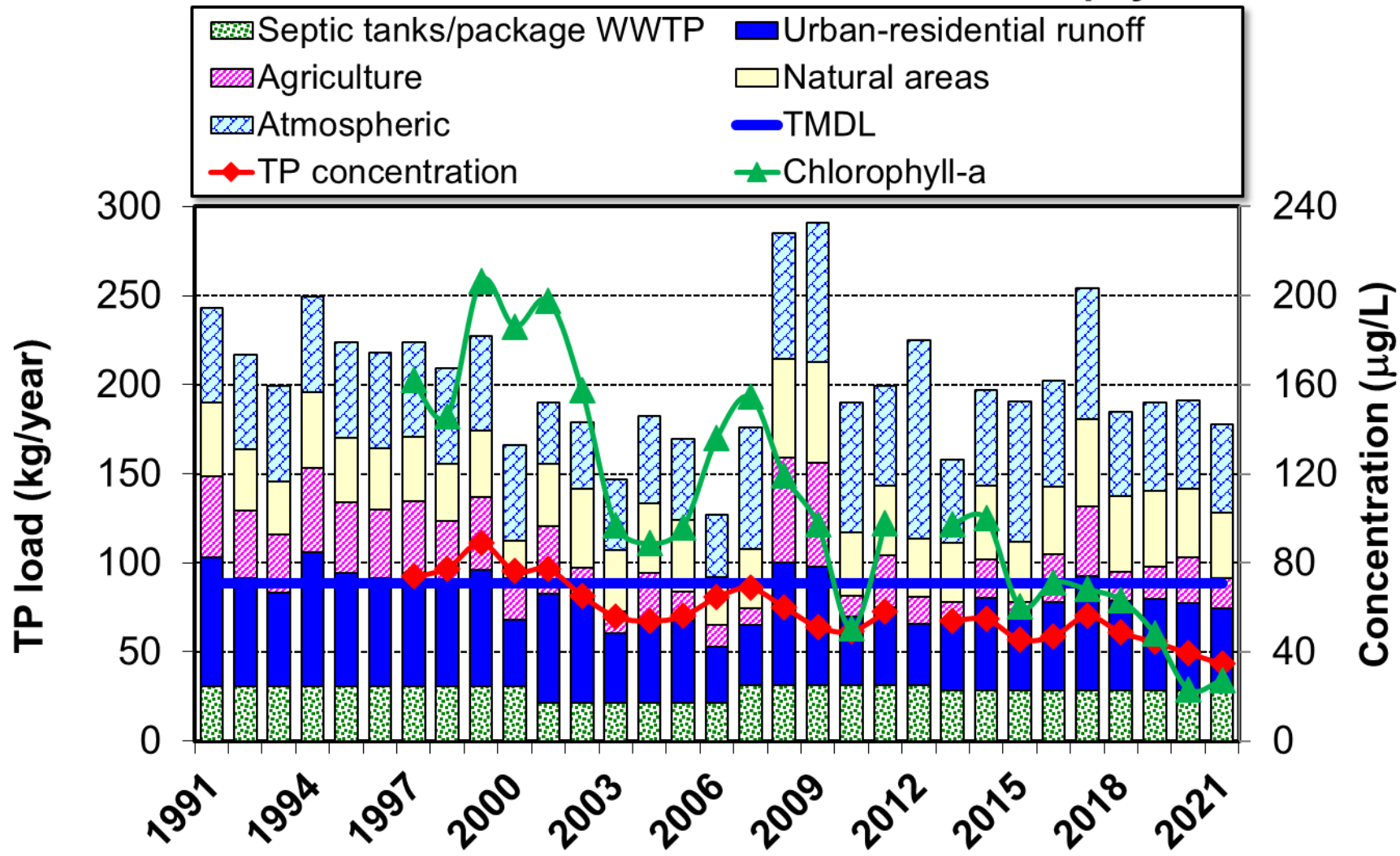
Loading Sources	% of total loading (2017 -2021 average)
Atmospheric	56%
Septic tanks	21%
Natural areas	16%
Urban-residential runoff	6%
Agriculture	1%

	TMDL target	2021 annual average	2017-2021 average
TN (mg/L)	0.68	0.77	0.87

TN annual loading (mt/year)	TMDL target	2021	2017-2021 average
	27.432	31.488	28.202



Lake Carlton estimated annual external total phosphorus loads, and concentrations of TP and chlorophyll-a

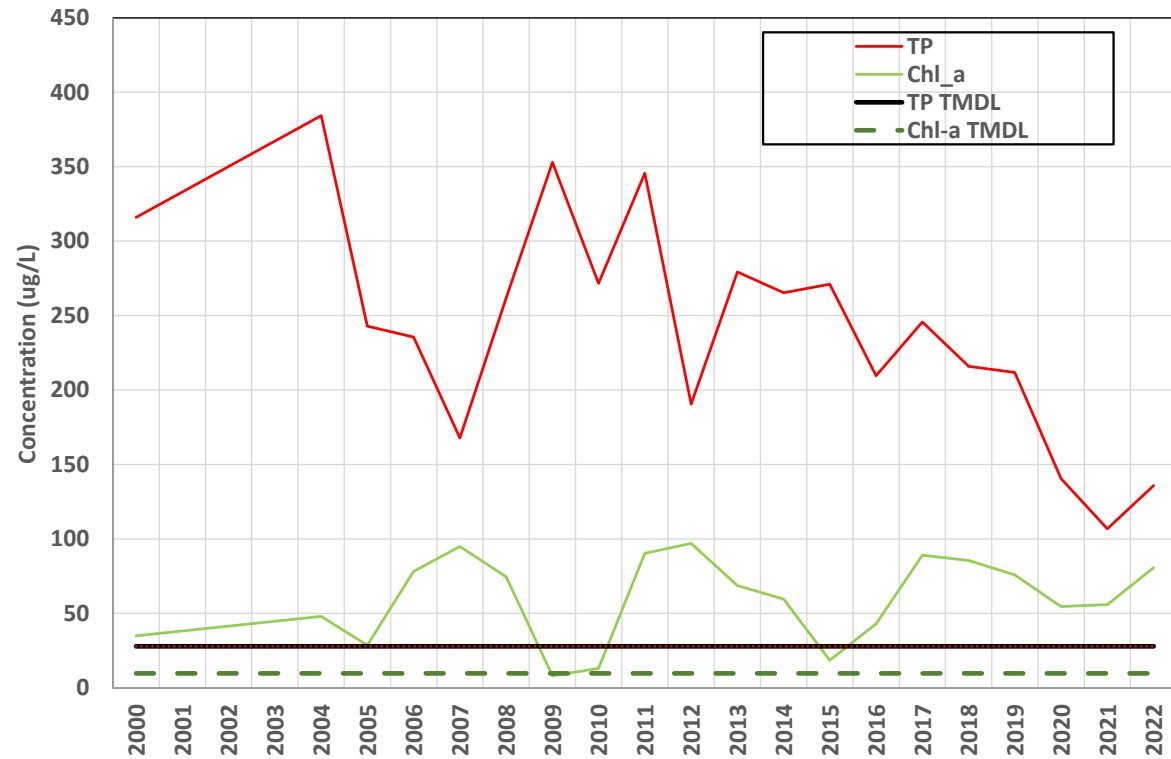


Loading Sources	% of total loading (2017 -2021 average)
Stormwater runoffs Urban/Natural/Agriculture)	59(26/21/12)
Atmospheric	27
Septic tanks/package WWTP	14

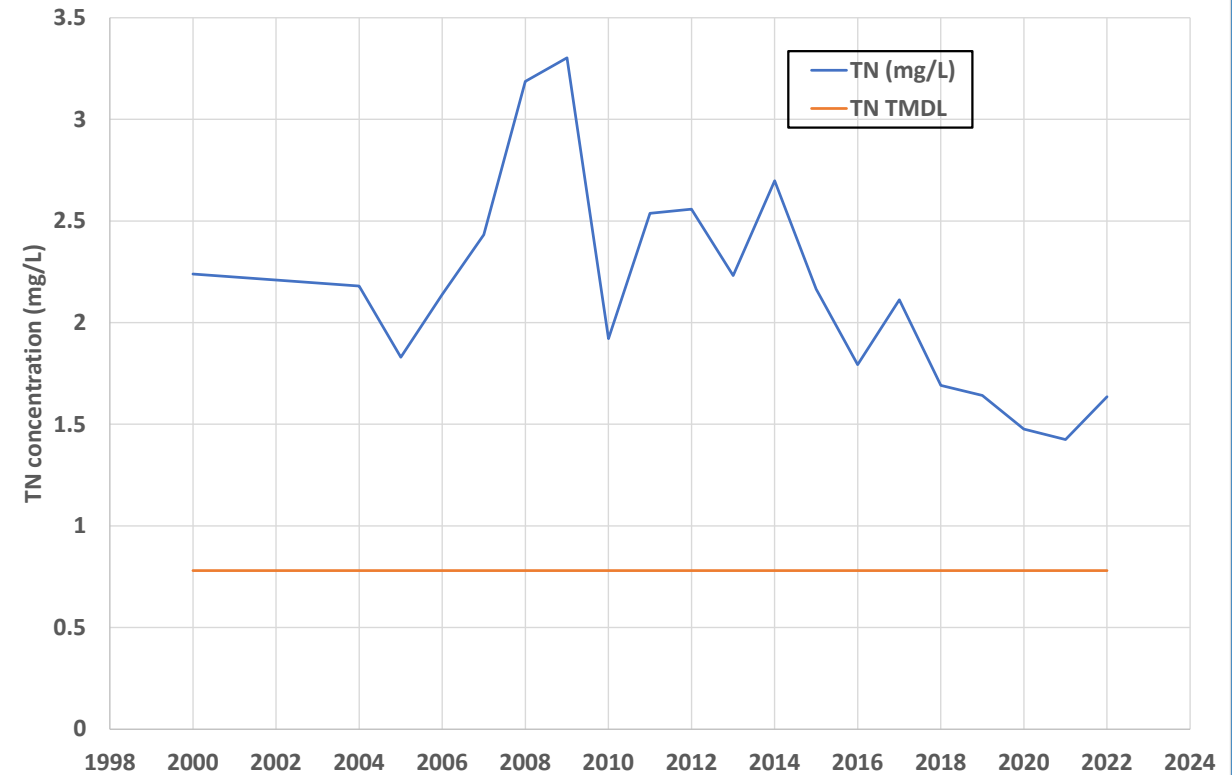
	TMDL target	2021 annual average	2017-2021 average
TP (µg/L)	32	35	45
Chl-a (µg/L)	30	28	46
TP annual loading (mt/year)	TMDL target 0.088	2021 0.178	2017-2021 average 0.199

Water Quality Condition in Trout Lake

TP and Chl-a annual average concentration in Trout Lake

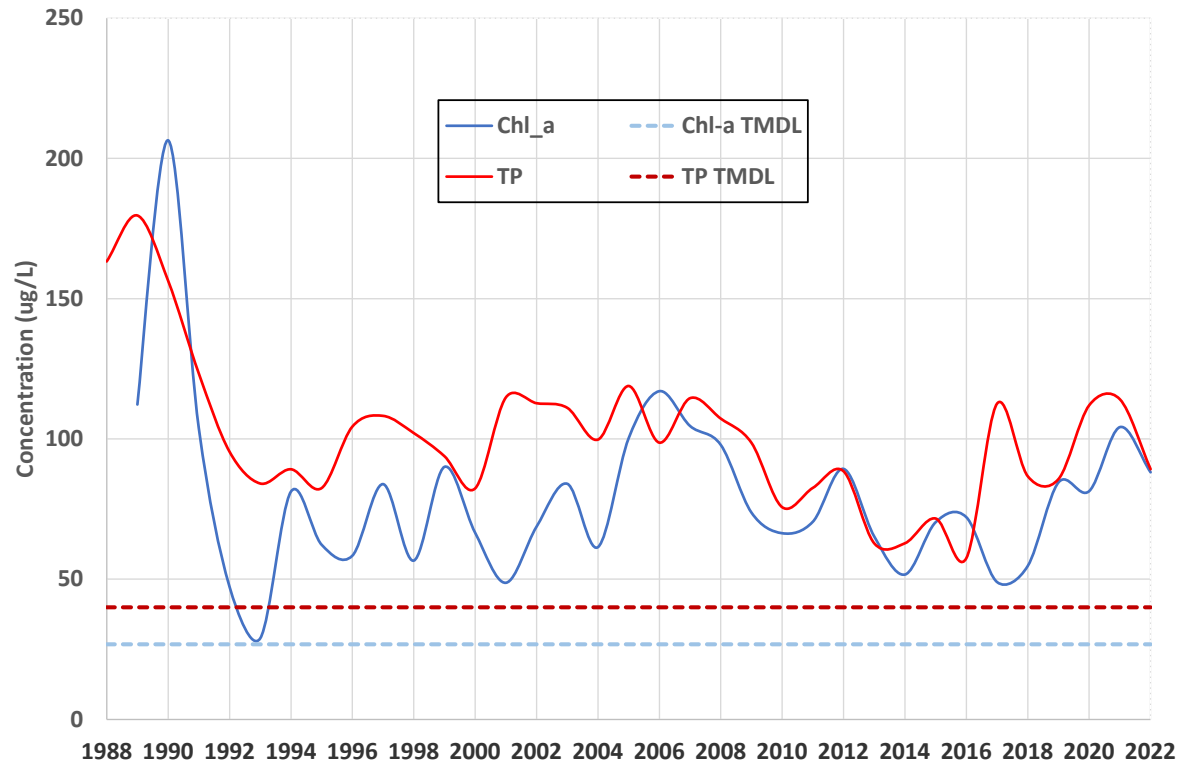


Annual TN concentration in Trout Lake

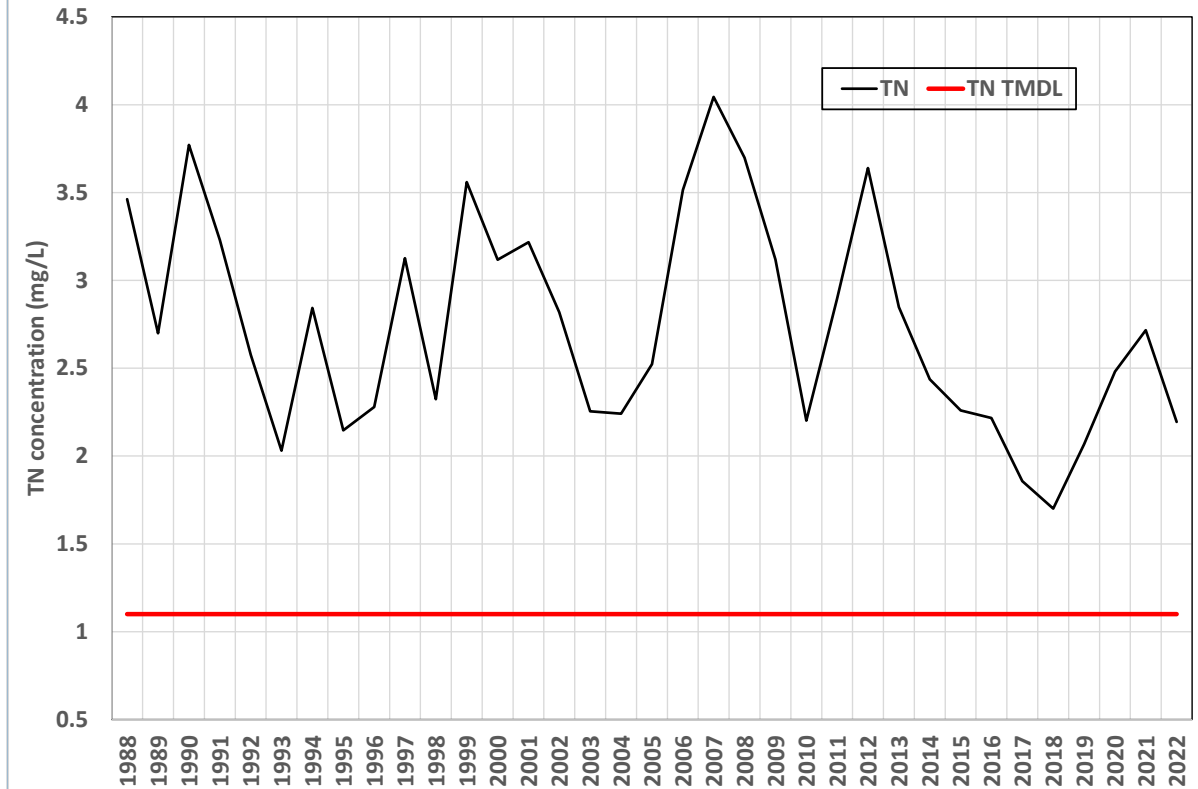


Water Quality Condition in Lake Denham

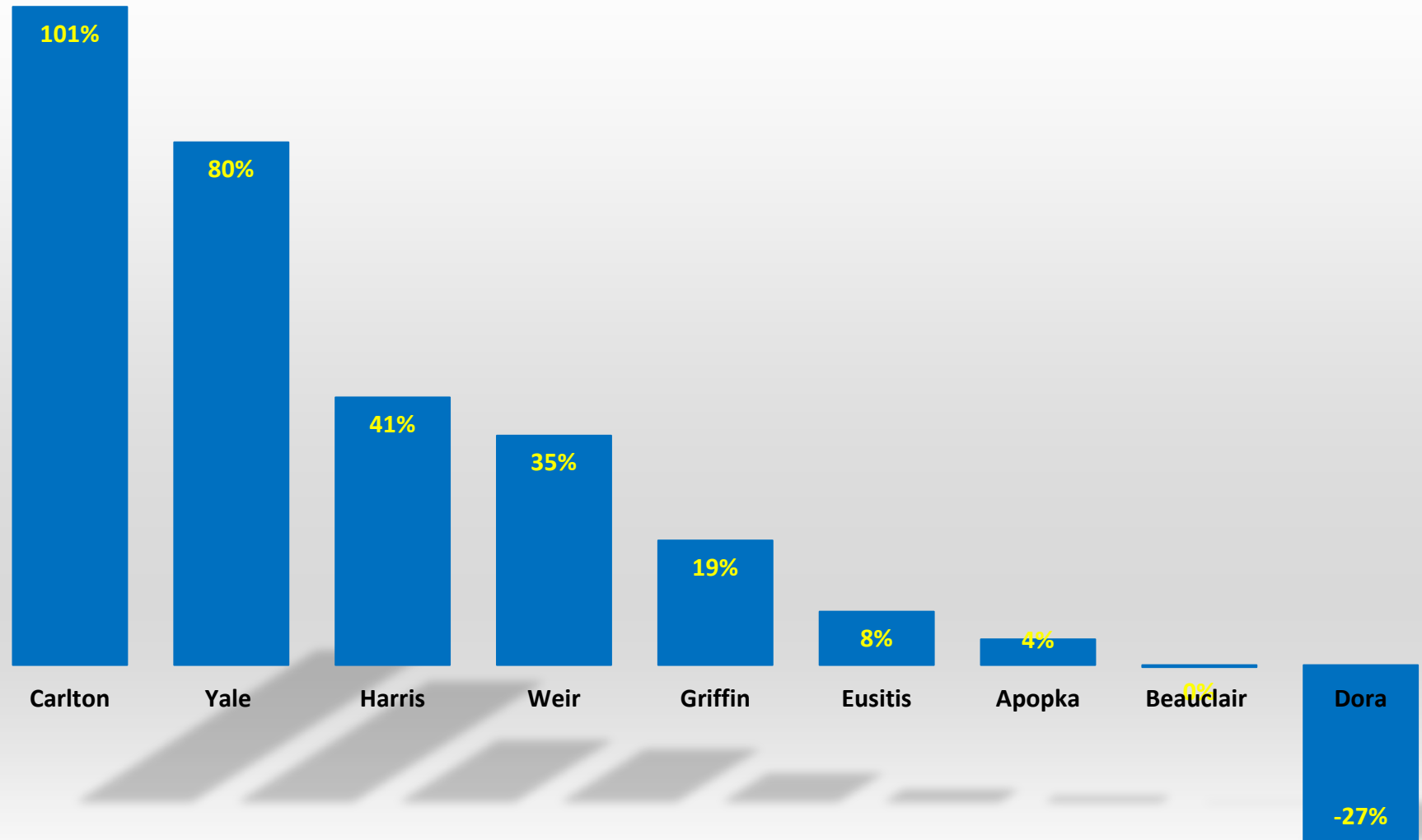
Annual average TP and Chl-a concentration in Denham Lake



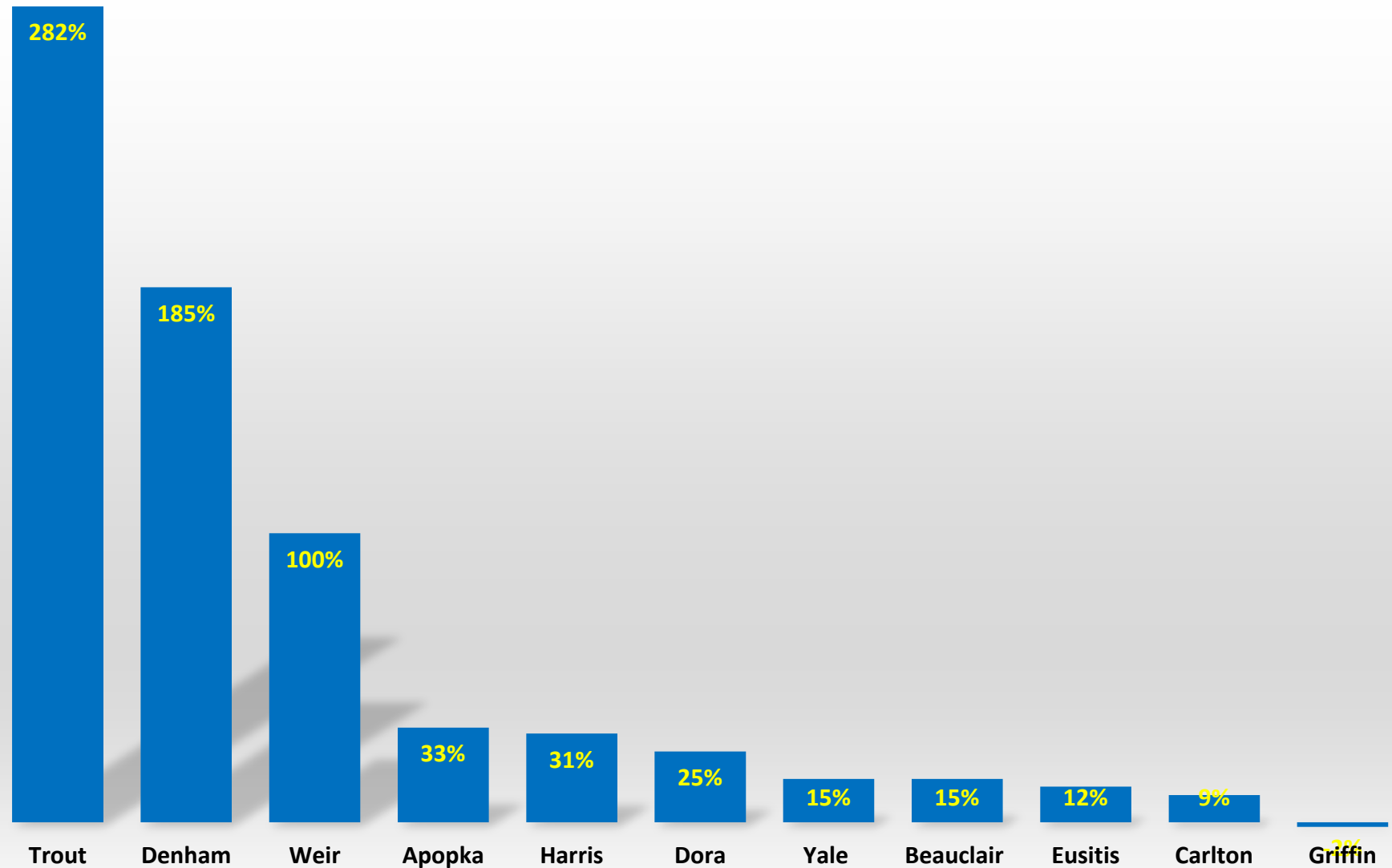
Annual average TN concentration in Denham Lake



2021 Annual TP Load Departure Percentage from TMDL Target



2021 Annual TP Concentration Departure Percentage from TMDL Target



Summary

- TP load in lakes Apopka, Beauclair, Dora met or closely met their respective TMDL targets, while Lake Carlton and Lake Yale greatly exceeded their TMDL loading target in 2021.
- In term of TP concentration in 2021 relative to TMDL concentration target, lakes Griffin, Carlton, Eustis, Beauclair, and Yale have better water quality than other lakes in the basin, while lakes Trout Denham and Weir have the worst water quality.



Upper Ocklawaha BMAP Annual Meeting

June 22, 2022

Cori Hermle

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



Florida Department of Agriculture and Consumer Services

Overview

- Agricultural Best Management Practices (BMP)
- FDACS Role in BMP Implementation
- Enrollments within the Upper Ocklawaha BMAP
- BMP Implementation Verification (IVs)
- Research Program
- Legislative Report



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
- Enhancing wildlife habitat

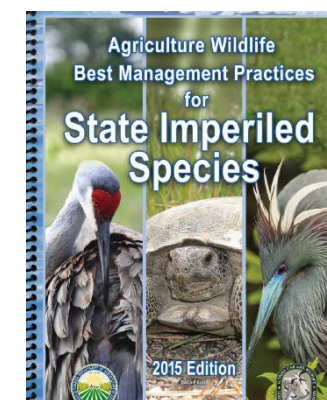
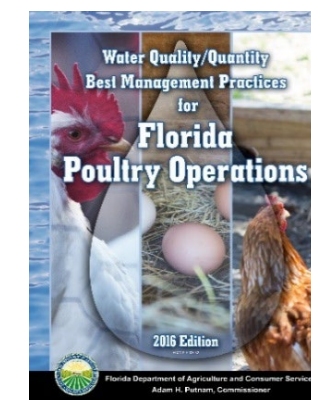
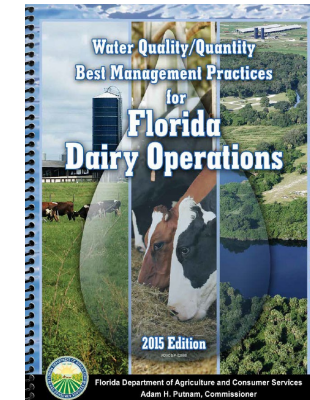
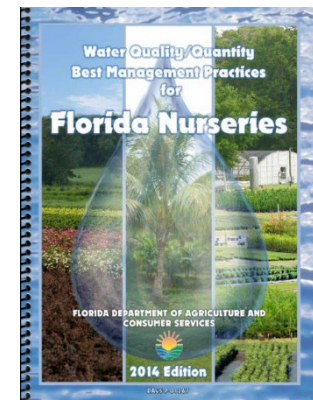
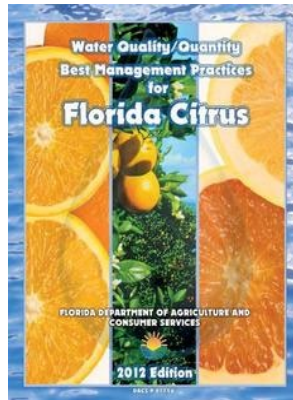
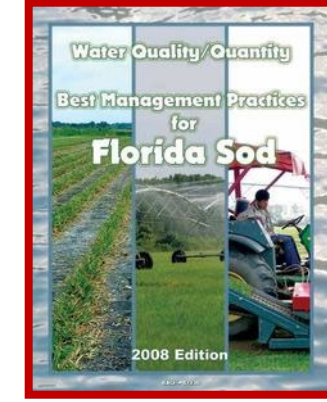
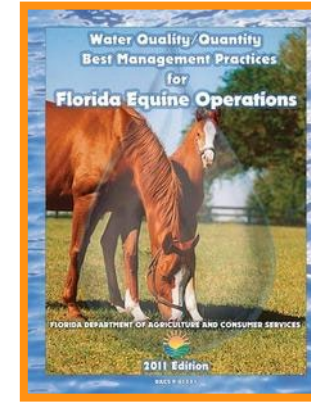
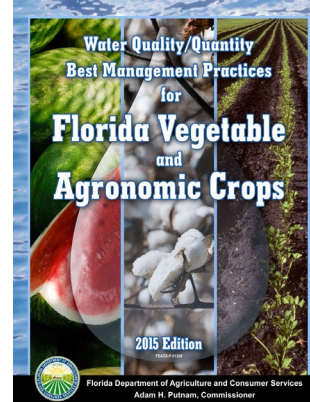
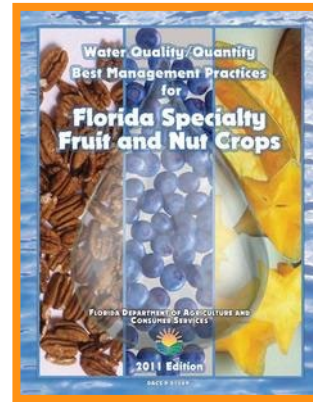
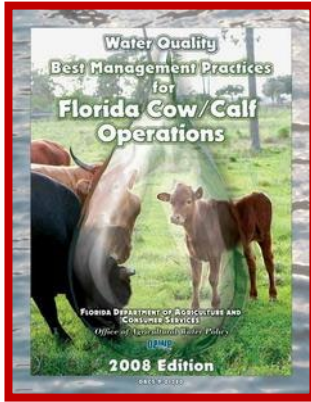


FDACS Role in BMP Implementation

- 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 Upper Ocklawaha BMAP

- 22% of all agricultural acres are enrolled in the BMP program
 - Total Ag Acres = 100,126
 - Enrolled Ag Acres = 21,810
- 53% of all irrigated agricultural acres are enrolled in the BMP program
 - Total Irrigated Ag Acres = 14,270
 - Enrolled Irrigated Ag Acres = 7,493
- Majority of enrollments are Cow/Calf and Citrus

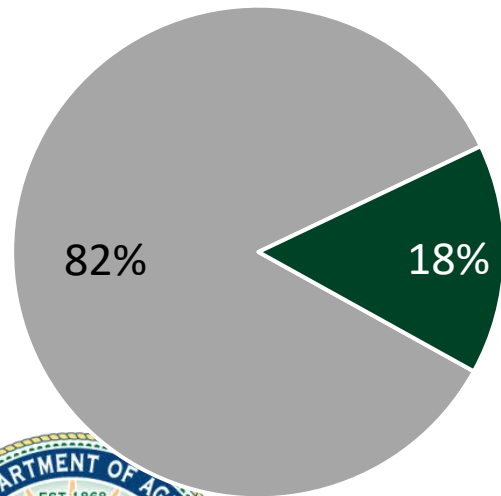


BMP enrollment as of Dec 2021 and the 8th Florida Statewide Agricultural Irrigation Demand ([FSAID](#)) Geodatabase

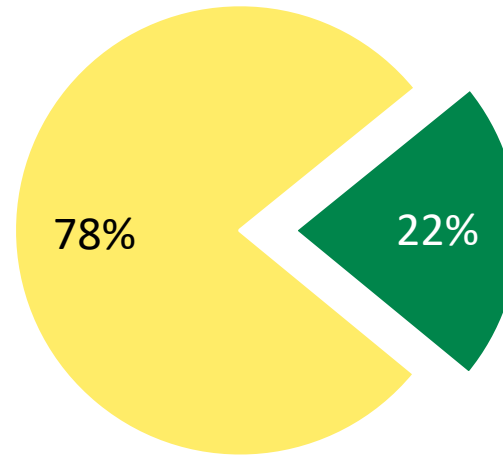
Agricultural Lands within Upper Ocklawaha BMAP

Non-Agricultural Acres	Agricultural Acres	Enrolled Agricultural Acres	Remaining Agricultural Acres	Unlikely Enrollable Acres	Potentially Enrollable Acres
562,000	100,126	21,810	78,316*	32,661	41,069

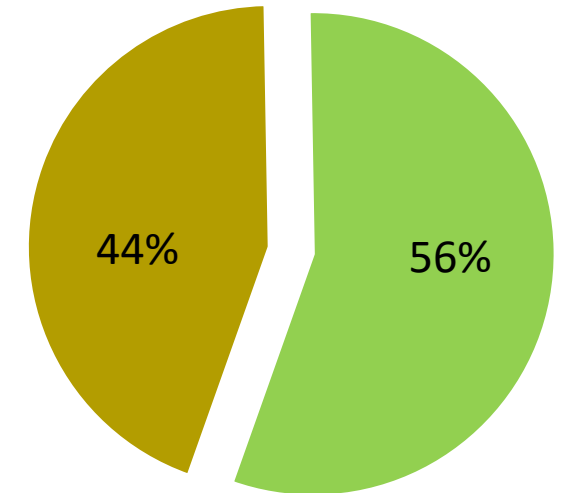
Non-Ag Acres vs
Ag Acres



Enrolled Ag Acres vs
Remaining Ag Acres



Unlikely Enrollable Acres
vs Potentially Enrollable Acres



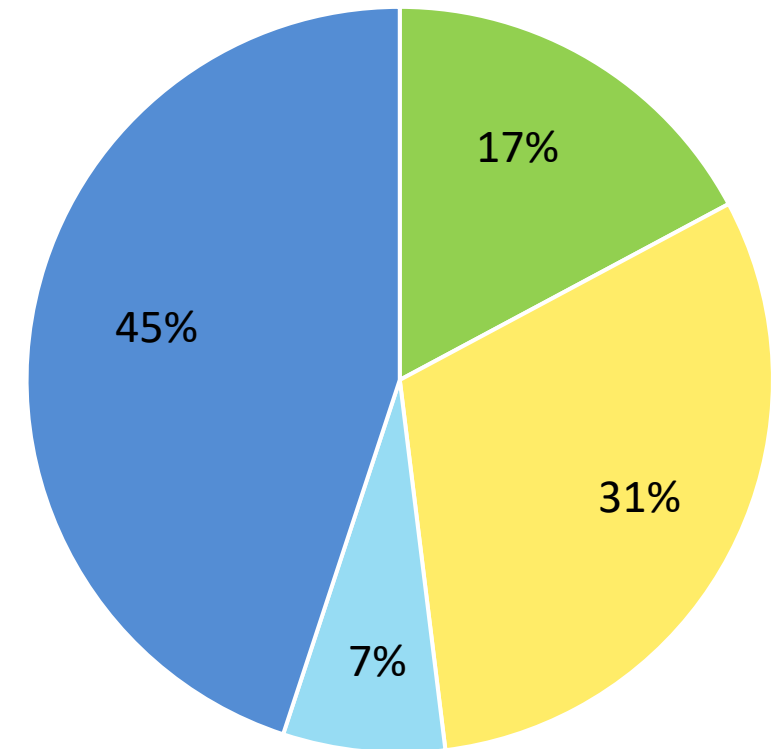
*This value includes 5,388 acreages within state-owned properties that are not included in the 'unlikely enrollable' or 'potentially enrollable' acres categories

Unlikely Enrollable Agricultural Lands within Upper Ocklawaha BMAP

Category	Acres
State Lands, CERP, Surface Water Projects	5,388
Timberland and Aquaculture	5,612
DOR Use Code 70-99 (industrial or institutional use, acreage not zoned agricultural), Non-Ag Entity	10,081
Missing Parcel Information, Slivers, No Overlap	2,291
No or Conflicting Ag Tax Class or DOR Land Use	14,678

Unlikely Enrollable Acres: 32,661

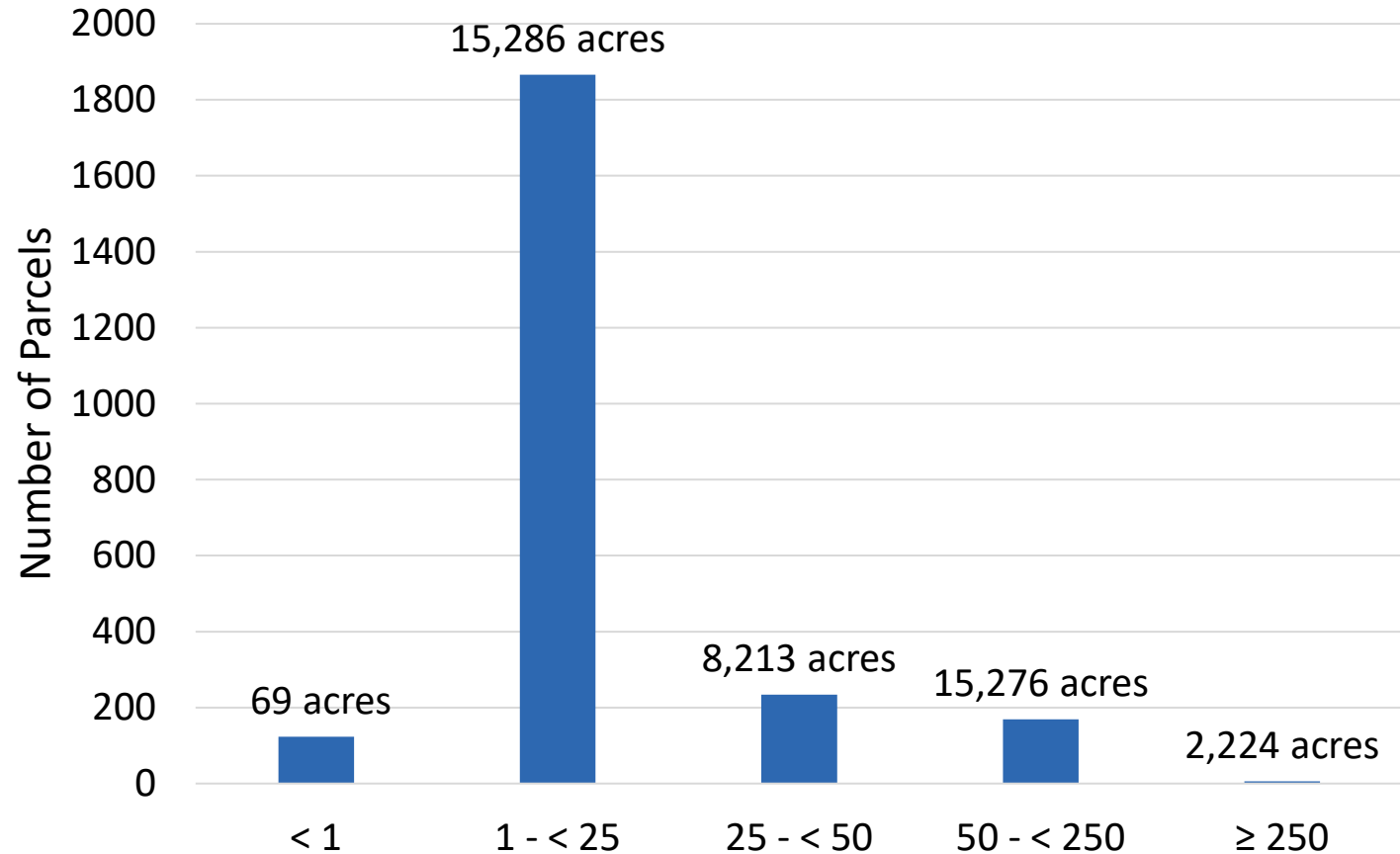
Remaining Acreage:
Unlikely Ag Breakdown



Potentially Enrollable Agricultural Lands within Upper Ocklawaha BMAP

Ag Acres within Parcel	Parcel Count	Total Ag Acres
< 1	123	69
1 - < 25	1,866	15,286
25 - < 50	234	8,213
50 - < 250	169	15,276
≥ 250	6	2,224

Potentially Enrollable Acres: 41,069



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
 - 97% 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 June 1, 2022



OAWP Implementation of SB 712

Producer Outreach

- FAQs Document
- Technical Assistance under development
- Video Assistance
 - [OAWP YouTube Playlist](#)
- Continued collaboration with UF/IFAS Extension to raise awareness



Commissioner Nicole "Nikki" Fried

Pay/Register Online Forms By Topic Our Department

Home / Agriculture Industry / Water / Agricultural Water Policy FAQ

Agricultural Water Policy FAQ

Frequently asked questions about the Florida Department of Agriculture and Consumer Services' (FDACS) Office of Agricultural Water Policy, Best Management Practices (BMPs), and other topics

For information on the passage of Senate Bill 712 and new requirements for agricultural producers and landowners enrolled in the FDACS BMP program, see our [Senate Bill 712 FAQ](#) [PDF 2.7 MB].

For more information about BMPs, see our [Agricultural BMPs FAQ](#) [PDF 1.4 MB].

Select a question below to expand the answer.

- > What programs are administered by the FDACS Office of Agricultural Water Policy?
- > What is a BMP?
- > Are landowners required to implement BMPs?
- > How are BMPs adopted?
- > Does the FDACS Office of Agricultural Water Policy participate in BMP research and demonstration projects?

Water

- [Agricultural Best Management Practices](#)
- [Agricultural Permit Exemption Determinations](#)
- [Agricultural Water Policy FAQ](#)
- [Agricultural Water Supply Planning](#)
- [Mobile Irrigation Labs](#)
- [Office of Agricultural Water Policy](#)

OAWP Research Program

Build and maintain a BMP Research Program [s. 403.067(7)(c)3., F.S. and 373.813 F.S.]

FDACS OAWP supports research to provide the scientific and technical justification for the BMP program and to investigate new, innovative practices that improve nutrient and irrigation use efficiencies. Studies must address at least one OAWP research priority.

For information, visit the FDACS BMP Research website:

<https://www.fdacs.gov/Agriculture-Industry/Water/Agricultural-Best-Management-Practices/BMP-Research>



Florida Department of Agriculture and Consumer Services

Current OAWP Research Priorities

- **Nutrient management systems**
 - **Agonomic rate recommendations** that balance production with water resource protection through the inclusion of water quality monitoring
 - **Soil and tissue test calibrations and correlations**
 - **Controlled Release Fertilizer use efficiency**
 - **Fertigation to improve nutrient use efficiency**
 - **Software and data collection tool development**
- **Irrigation application and management technologies**
- **Water resource protection** using methods and treatment technologies for on-farm or edge-of-farm
- **Soil Health** specific to Florida
 - **Mixed species or cover crops for improving nutrient utilization**
 - **Rotational cropping or integrated crop/livestock systems for improving nutrient utilization**
- **Demonstrations of water quality improvement** projects that provide information on FDACS BMP benefits to water resources with specific reductions in nutrients (lbs/ac) and quantities of water savings



2021 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, 2021

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. 07/21



Status of Implementation of Agricultural Best Management Practices (BMPs) Statewide

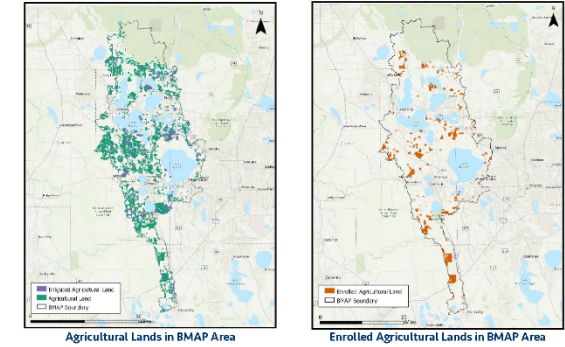
Enrollment Summary	2020
Total agricultural acres statewide	7,582,111
Total acres enrolled	4,672,975
Percentage of agricultural acres enrolled	62%
Total irrigated acres	1,877,118
Total irrigated acres enrolled	1,534,442
Percentage of irrigated acres enrolled	82%

FSAID Agricultural Acres Enrolled

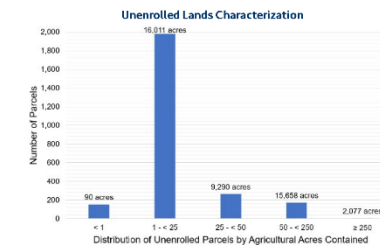
BMP Manuals	Acres
Citrus	490,788
Conservation Plan Rule	182,295
Cow/Calf	1,952,719
Dairy	54,550
Equine	20,758
Fruit & Nut	20,593
Lake Okeechobee Protection Plan (LOPP)	21,707
Multiple Commodities	777,918
Nursery	33,828
Poultry	1,235
Row/Field Crops	1,067,891
Sod	33,887
Wildlife	14,660
Temporarily Inactive	146
TOTAL	4,672,975

25

Status of Implementation of Agricultural Best Management Practices (BMPs) in the Upper Ocklawaha River Basin



Enrollment and Response Summary	2020	2020 Percent Enrolled
Total agricultural acres in the BMAP	101,015	22
Total agricultural acres enrolled	22,170	
Total irrigated acres	15,313	51
Total irrigated acres enrolled	7,864	
Number of NOIs within BMAP	321	
Completed IV site visits	92	



Agricultural Acres Enrolled

BMP Manuals	Acres
Citrus	6,238
Cow/Calf	9,602
Equine	149
Fruit & Nut	930
Multiple Commodities	1,422
Nursery	2,293
Row/Field Crops	1,034
Sod	502
TOTAL	22,170

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

Florida Department of Agriculture and Consumer Services

Thank You!

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

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Corinne.Hermle@fdacs.gov (850) 688-6156



Florida Department of Agriculture and Consumer Services



Unenrolled Agricultural Producer Enforcement

David Frady, Ph.D.
Program Administrator

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection



Unenrolled Agricultural Producer Enforcement

FDACS Identifies non-compliant producers

- 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

- More than 69% of the unenrolled agricultural parcels identified by FDACS and referred to FDEP have been brought into compliance
 - That is more than 83% of the total acres
- 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

David Frady

Division of Environmental Assessment and Restoration
Florida Department of Environmental Protection

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