



SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

# Springs Coast Management Committee

FY2026

Approve Meeting Dates

July 9, 2025

Southwest Florida  
*Water Management District*



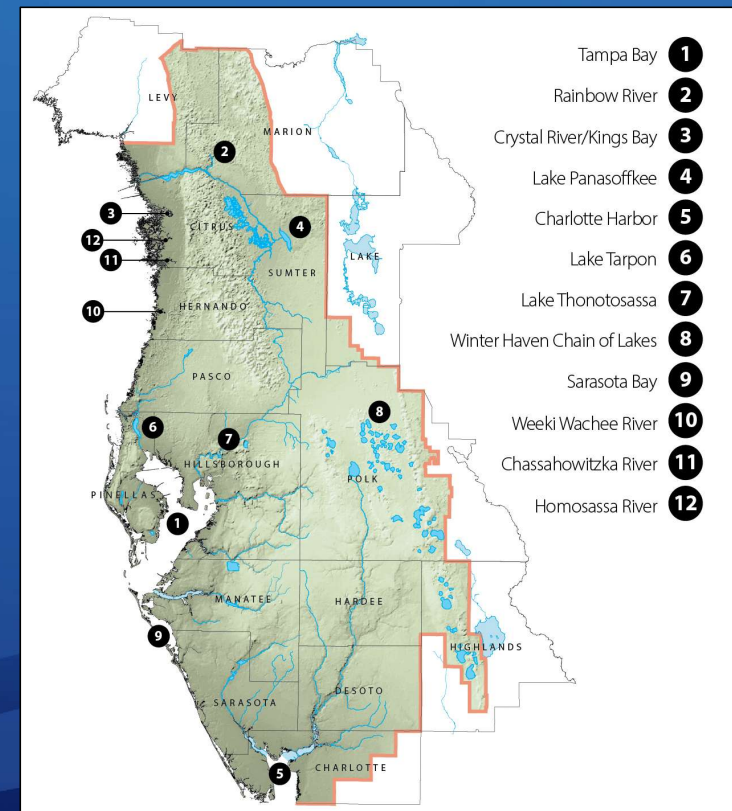
Madison Trowbridge, Ph.D.

Springs Scientist

Natural Systems & Restoration Bureau

## The SWIM Act 373.453, F.S.

- Created by the Legislature in 1987
- Managed by the Water Management Districts
- Develop and maintain lists of priority surface waters
- Develop plans to protect and restore priority surface waters





SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

# Springs Coast Committees



## *Mission*

**To build inter-agency partnerships to protect, manage, and restore springs**

**To develop comprehensive plans for the five first- magnitude springs systems**

**Technical Working  
Group**

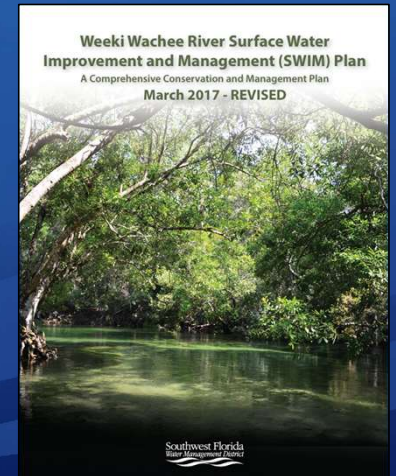
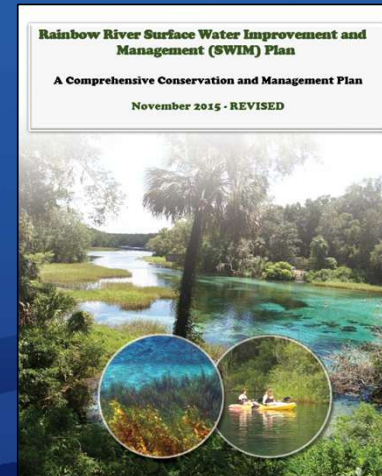
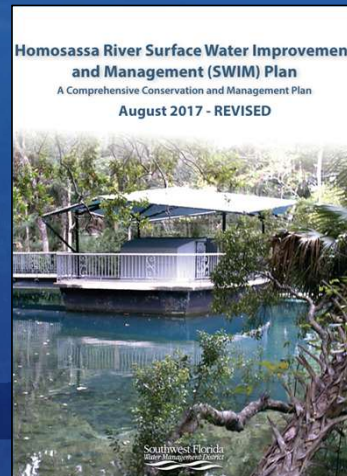
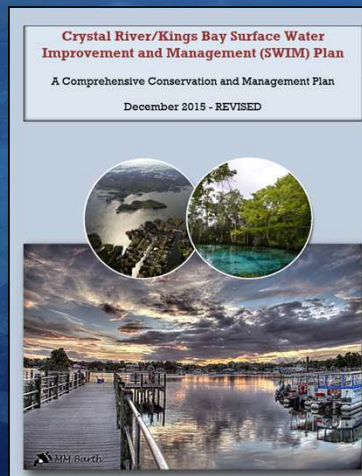
**Springs Coast  
Management  
Committee**

**Springs Coast  
Steering  
Committee**

## SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

# First-magnitude Springs SWIM Plans

- 2014: Springs Committees formed, SWIM Plan process began
- 2015 - 2017: SWIM Plans adopted
- 2020 - 2023: Quantifiable objective refinement process began
- 2024: Revised SWIM Plans adopted



## SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

	Jul '25	Feb/Mar '26	Jul '26	Feb/Mar '27	Jul '27	Feb/Mar '28	Jul '28	Feb/Mar '29	Jul '29
<b>Action items</b>	Approve 2026 meeting dates		Approve 2027 meeting dates		Approve 2028 meeting dates  Approve reconvening TWG		Approve 2029 meeting dates	Approve SWIM Plan (System 1)	Approve 2030 meeting dates
<b>Information items</b>	Quantifiable objective updates  Invited speakers	Quantifiable objective updates  Invited speakers	Quantifiable objective updates  Invited speakers	Quantifiable objective updates  Invited speakers	Discuss SWIM Plan schedule  Quantifiable objective updates  Invited speakers	Review SWIM Plan schedule  Invited speakers	Draft SWIM Plan presentation (System 1)  Invited speakers	Invited speakers	Draft SWIM Plan presentation (System 2)  Invited speakers

	Feb/Mar '30	Jul '30	Feb/Mar '31	Jul '31	Feb/Mar '32	Jul '32	Feb/Mar '33	July '33	Feb/Mar '34
<b>Action items</b>	Approve SWIM Plan (System 2)	Approve 2031 meeting dates	Approve SWIM Plan (System 3)	Approve 2032 meeting dates	Approve SWIM Plan (System 4)	Approve 2033 meeting dates	Approve SWIM Plan (System 5)	Approve 2034 meeting dates	
<b>Information items</b>	Invited speakers	Draft SWIM Plan presentation (System 3)  Invited speakers	Invited speakers	Draft SWIM Plan presentation (System 4)  Invited speakers	Invited speakers	Draft SWIM Plan presentation (System 5)  Invited speakers	Invited speakers	Quantifiable objective updates  Invited speakers	Quantifiable objective updates  Invited speakers



# Management Committee Meetings

Dates	Objective
Feb 18, 2026	<ul style="list-style-type: none"><li>• Quantifiable objective updates</li><li>• Invited presenters</li></ul>
Jul 8, 2026	<ul style="list-style-type: none"><li>• Approve: 2027 Meeting Dates</li><li>• Quantifiable objective updates</li><li>• Invited presenters</li></ul>

# Steering Committee Meetings

Dates	Objective
Mar 4, 2026	<ul style="list-style-type: none"><li>• Quantifiable objective updates</li><li>• Invited presenters</li></ul>
Jul 22, 2026	<ul style="list-style-type: none"><li>• Approve: Meeting Dates</li><li>• Quantifiable objective updates</li><li>• Invited presenters</li></ul>

## **Recommendations**

Approve the future Springs Coast Management Committee meeting dates.





SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

# Quantifiable Objective Status Updates

Southwest Florida  
*Water Management District*

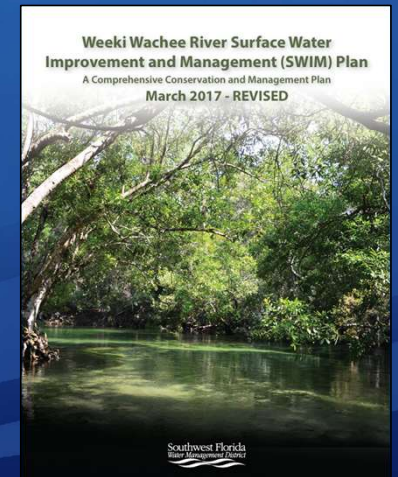
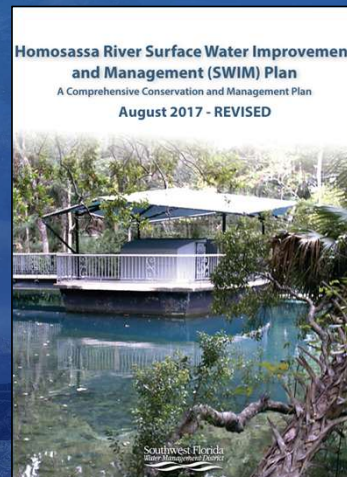
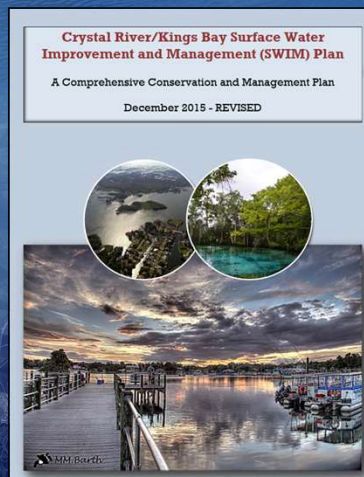
Madison Trowbridge, Ph.D.  
Springs Scientist  
Natural Systems and Restoration



## SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

# SWIM Plans

- Issues & Drivers
- Management Actions (Quantifiable Objectives & Indicators)
- Projects & Initiatives





# Quantifiable Objectives & Indicators

## WATER QUALITY



- Water clarity<sup>^</sup>
- Nitrate concentration<sup>\*</sup>
- Total nitrogen concentration<sup>\*</sup>
- Total phosphorus concentration<sup>\*</sup>
- Chlorophyll concentration<sup>^\*</sup>

## WATER QUANTITY



- Minimum flows & levels (MFLs)

## NATURAL SYSTEMS



- Submerged aquatic vegetation (SAV)
- No net loss of shoreline<sup>\*</sup>
- Shoreline enhancement<sup>\*</sup>

<sup>^</sup> denotes indicator status

<sup>\*</sup> denotes not applicable to all systems



## SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

# Rainbow River

## Indicators & Quantifiable Objectives

### Indicators

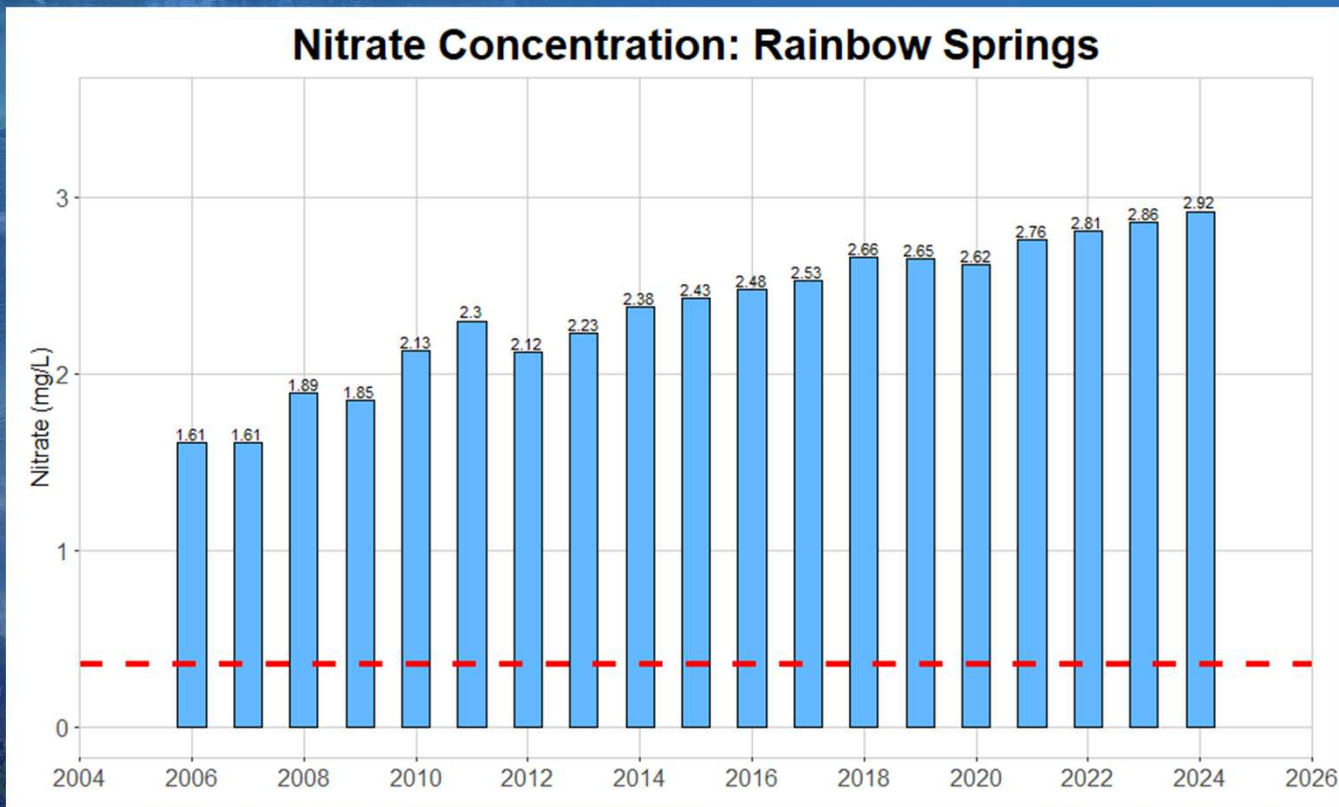
	Water clarity	Threshold
👍	Near the headspring	194 ft
👍	Middle portion of river	47 ft
👍	Lower portion of the river	26 ft

### Quantifiable Objectives

	Water quality	Target
👎	Nitrate concentration in the springs and river	< 0.35 mg/L
	Water quantity	
👍	Minimum flows for the springs and river	> 95% natural flow
	Natural systems	
👍 👎	Desirable submerged aquatic vegetation in the upper and lower portions of the river.	> 65%
👎 👎	Invasive aquatic vegetation in the upper and lower portions of the river.	< 10%

# Rainbow River – Quantifiable Objectives

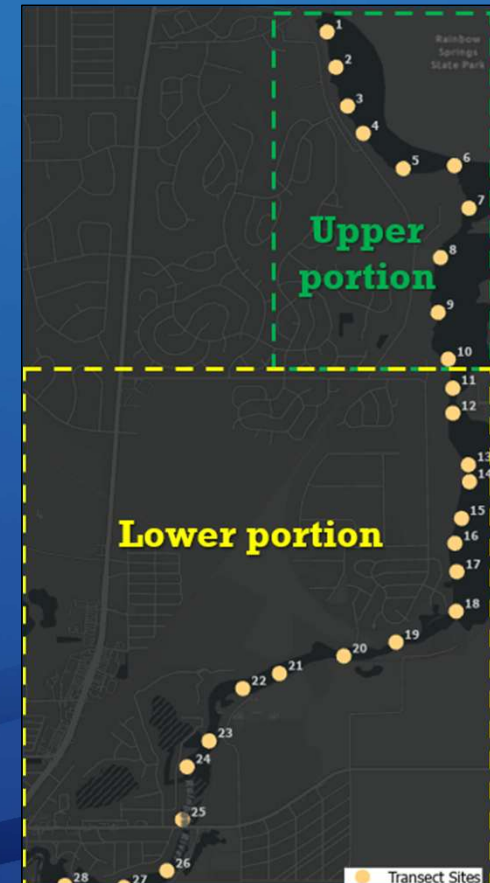
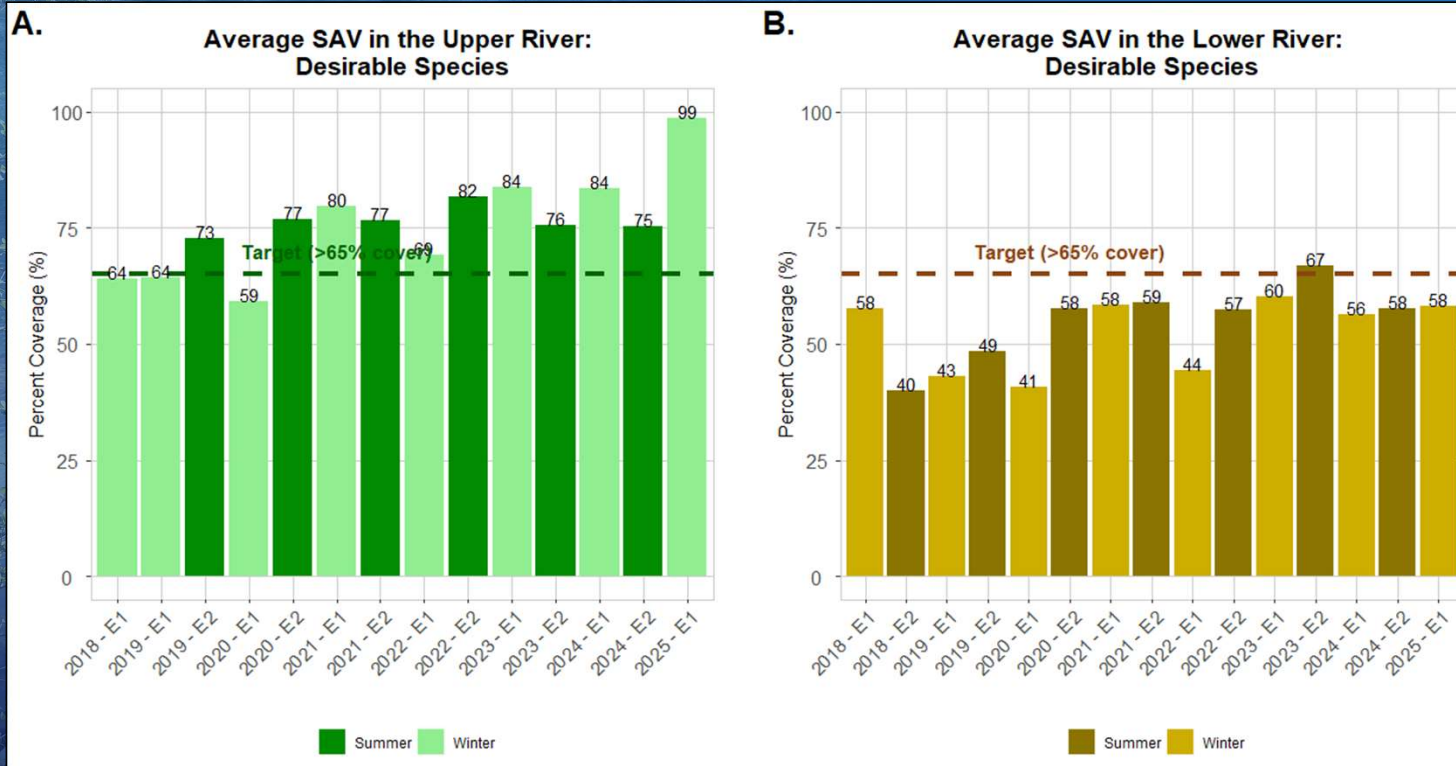
## Nitrate Concentration





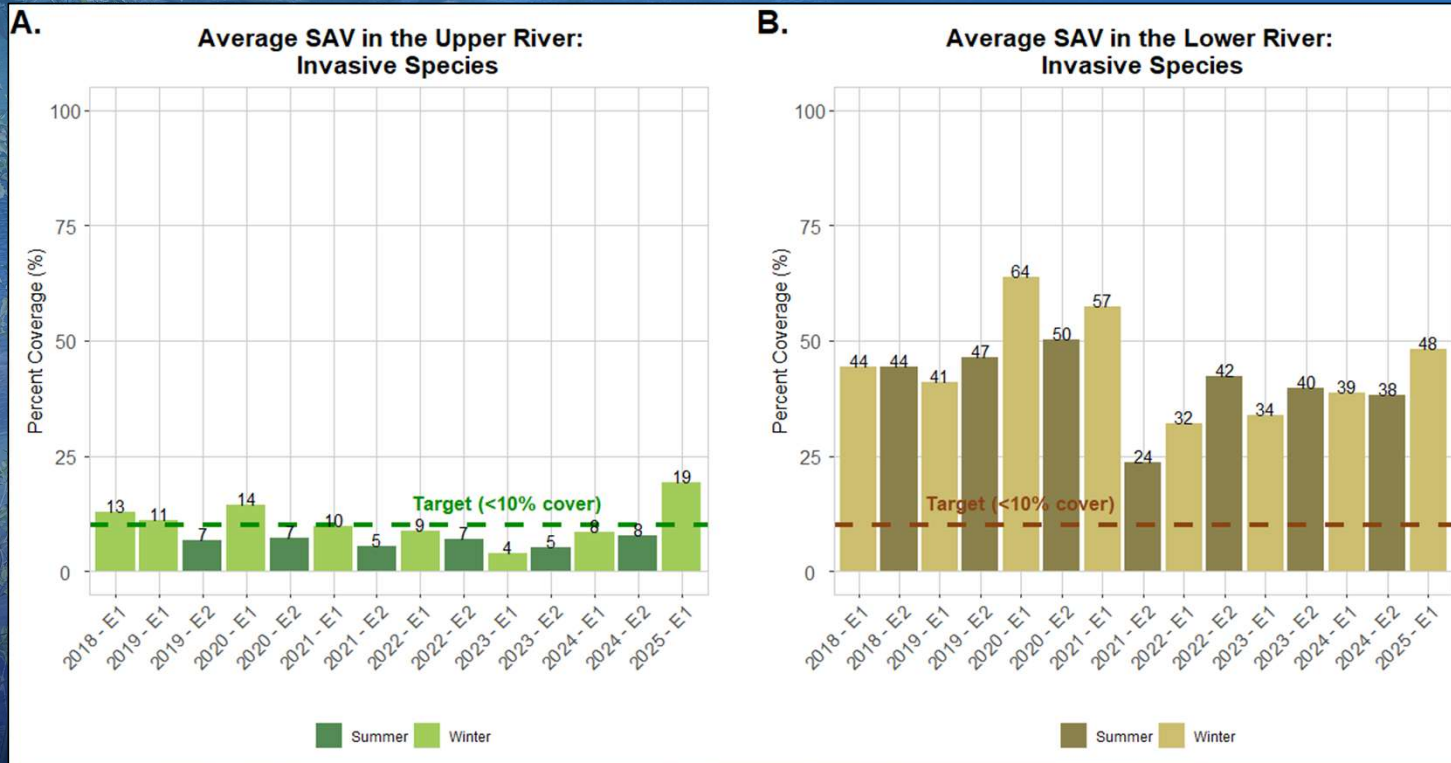
# Rainbow River – Quantifiable Objectives

## Desirable Submerged Aquatic Vegetation (SAV)



# Rainbow River – Quantifiable Objectives

## Invasive Submerged Aquatic Vegetation (SAV)





## SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

# Weeki Wachee River Indicators & Quantifiable Objectives

### Indicators

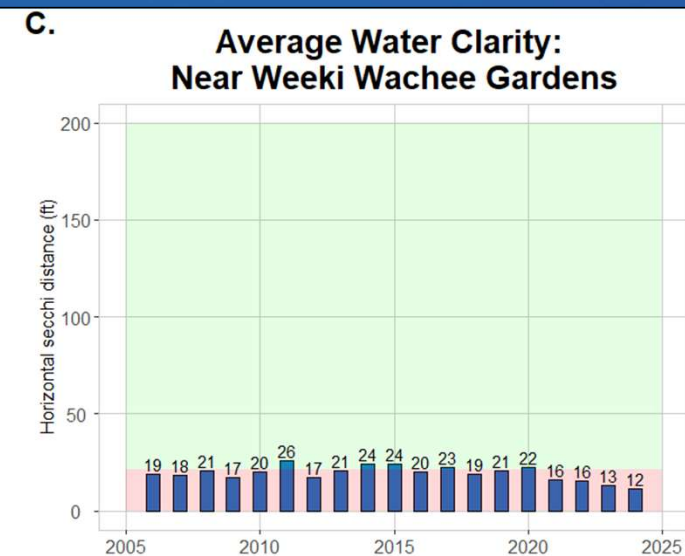
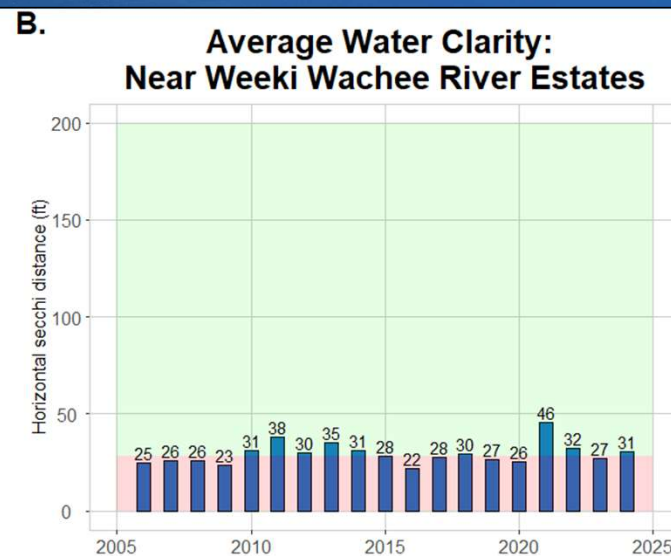
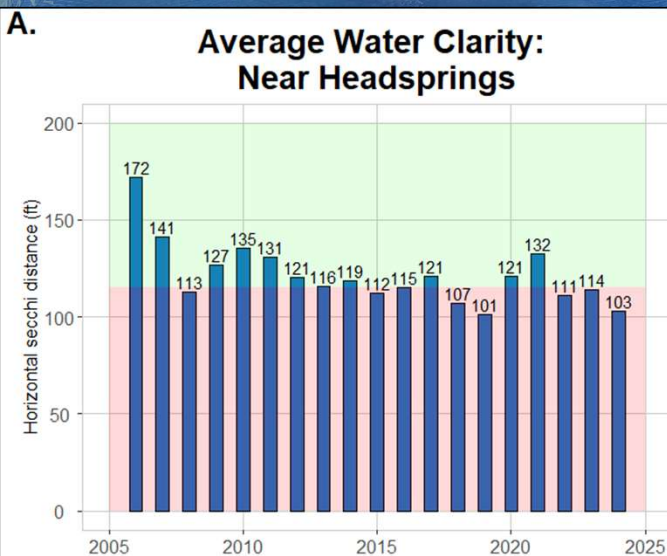
	Water clarity	Threshold
👉	Near the headspring	115 ft
👍	Near the Estates	28 ft
👉	Near the Gardens	21ft

### Quantifiable Objectives

	Water quality	Target
👉	Nitrate concentration in the springs	< 0.20 mg/L
	Water quantity	
👍	Minimum flows for the springs and river	> 90% natural flow
	Natural systems	
👍👉	Coverage of desirable submerged aquatic vegetation in the upper and lower portions of the river.	> 40%
👍👍	Coverage of invasive aquatic vegetation (including filamentous algae) in the upper and lower portions of the river.	< 10%

## SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

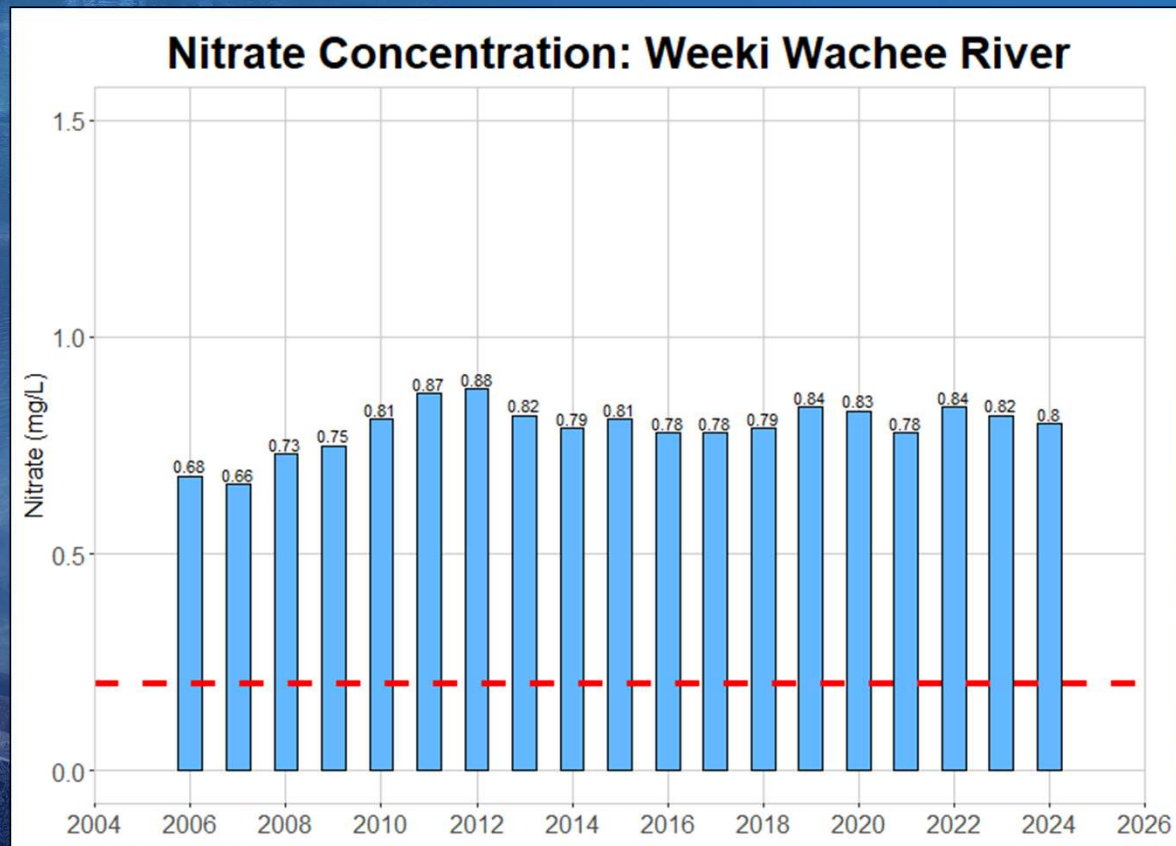
# Weeki Wachee River - Indicators Water Clarity





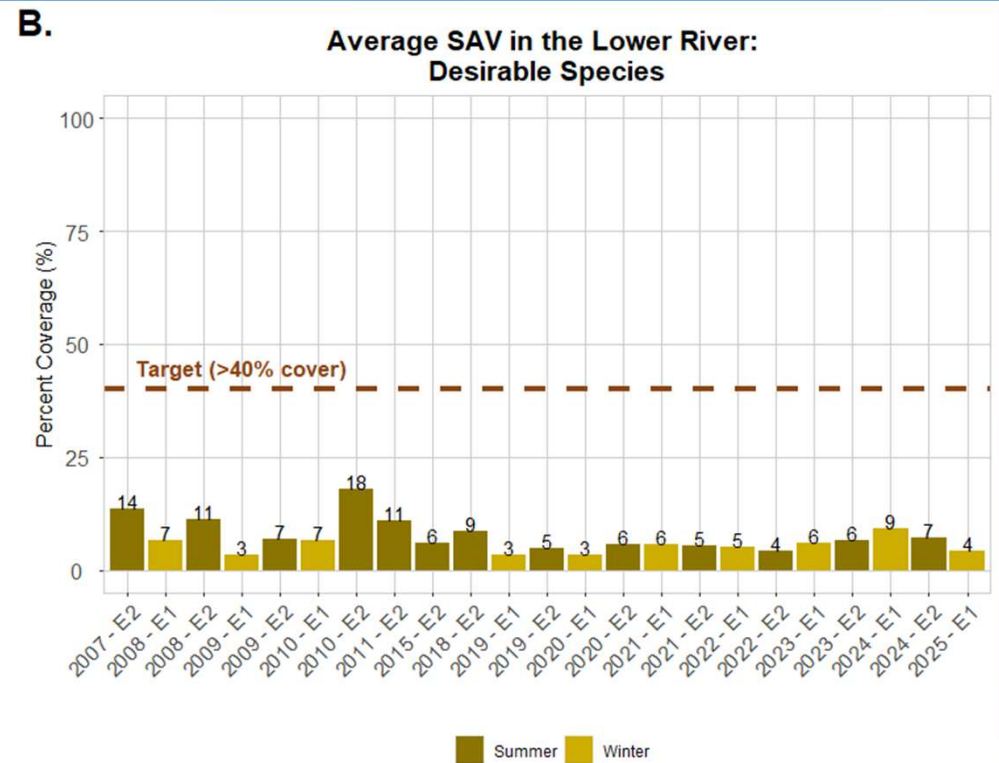
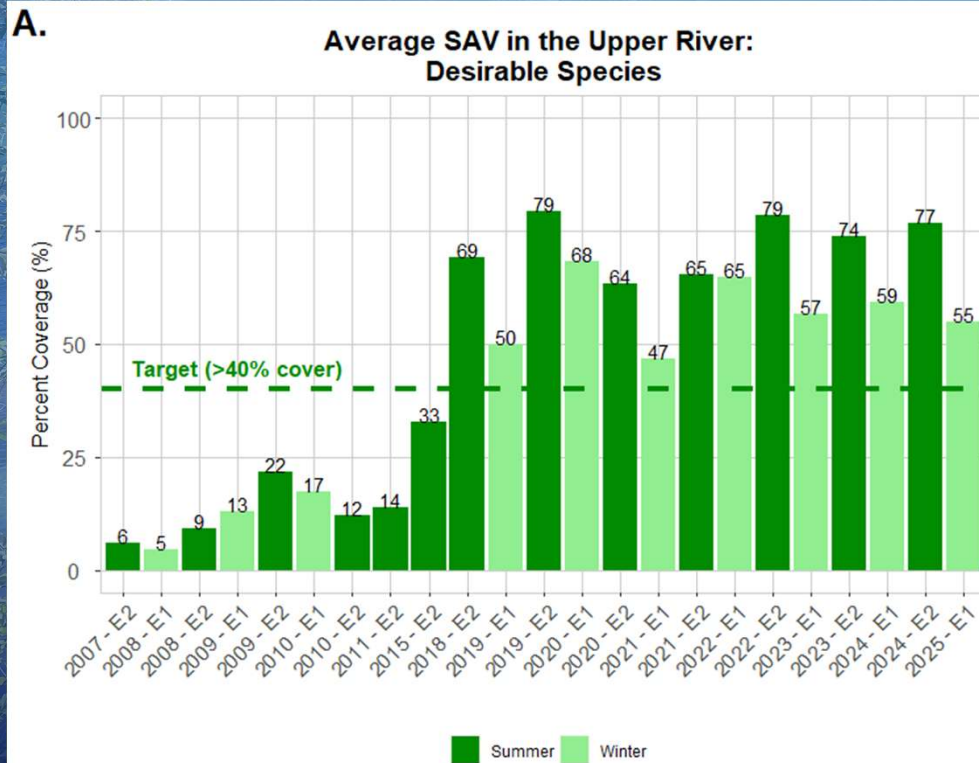
# Weeki Wachee River – Quantifiable Objectives

## Nitrate Concentration



## SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT




# Weeki Wachee River – Quantifiable Objectives Desirable Submerged Aquatic Vegetation (SAV)












## SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

# Crystal River/Kings Bay Indicators & Quantifiable Objectives

Indicators	Threshold
 Water clarity – Hunter Cove	21 ft
 Water clarity – Kings Bay Proper	8 ft
 Chlorophyll concentration in the bay	10 µg/L

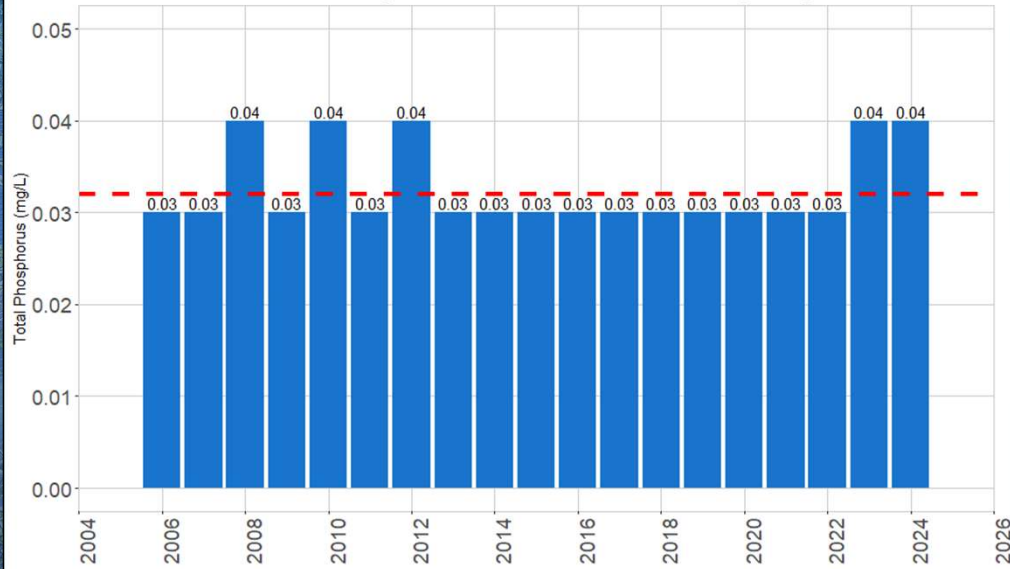
### Quantifiable Objectives

Water quality	Target
 Total nitrogen concentration in the bay	< 0.28 mg/L
 Total phosphorus concentration in the bay	< 0.032 mg/L
Water quantity	
 Minimum flows for the springs and river	> 89% natural flow
Natural systems	
 Coverage of desirable submerged aquatic vegetation in the bay	> 65%
 Coverage of invasive aquatic vegetation in the bay (including filamentous algae)	< 10%
 No net loss of shoreline in natural condition along the bay and river	No net loss
 Increase of enhancement to disturbed shorelines for the bay and river	> 20%

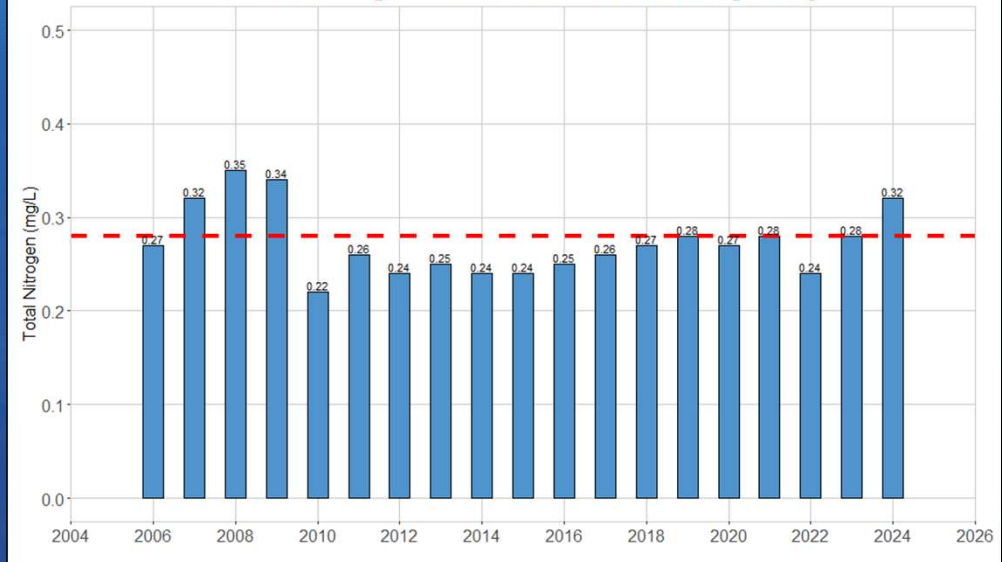
## SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

# Crystal River/Kings Bay – Quantifiable Objectives Total Nitrogen & Phosphorus Concentrations

Total Phosphorus Concentrations in Kings Bay



Total Nitrogen Concentration in Kings Bay

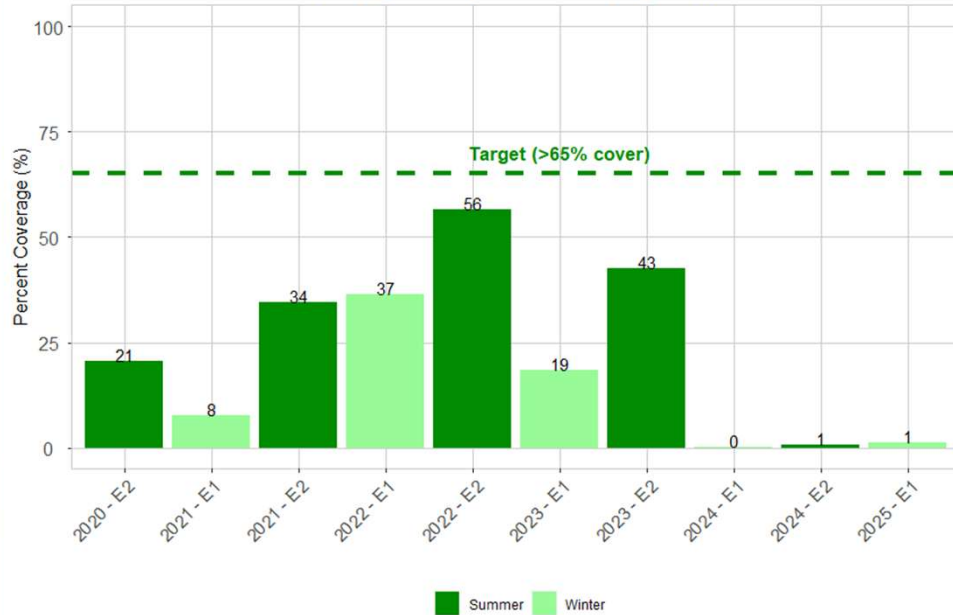




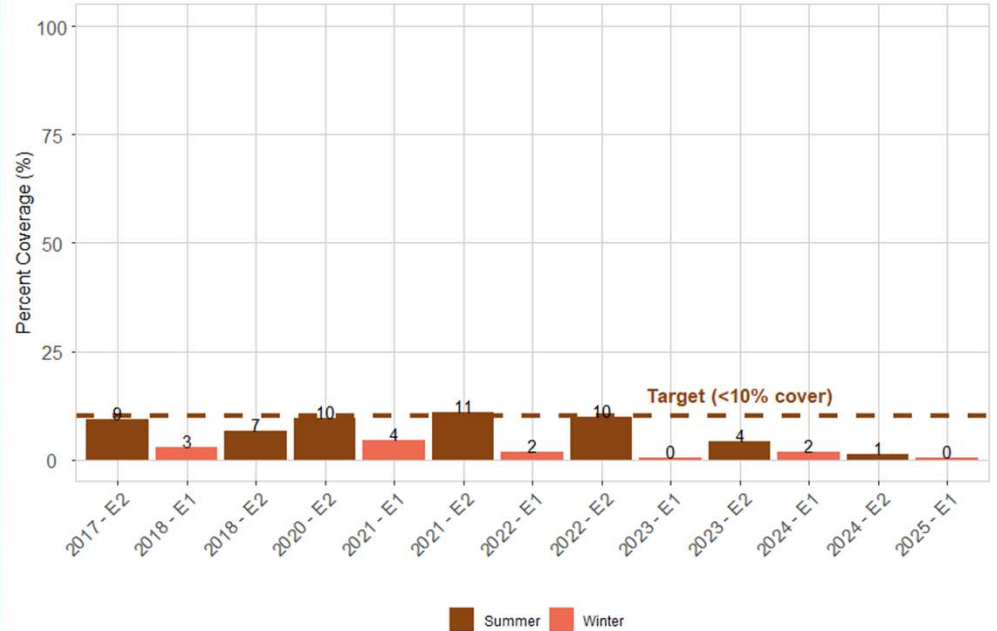
## SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

# Crystal River/Kings Bay – Quantifiable Objectives Desirable & Invasive Submerged Aquatic Vegetation (SAV)

Average Desirable SAV in Kings Bay

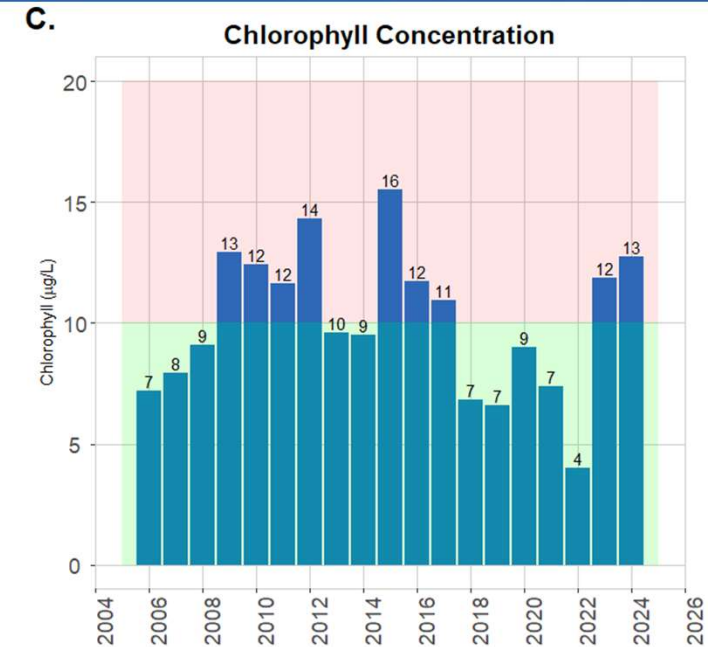
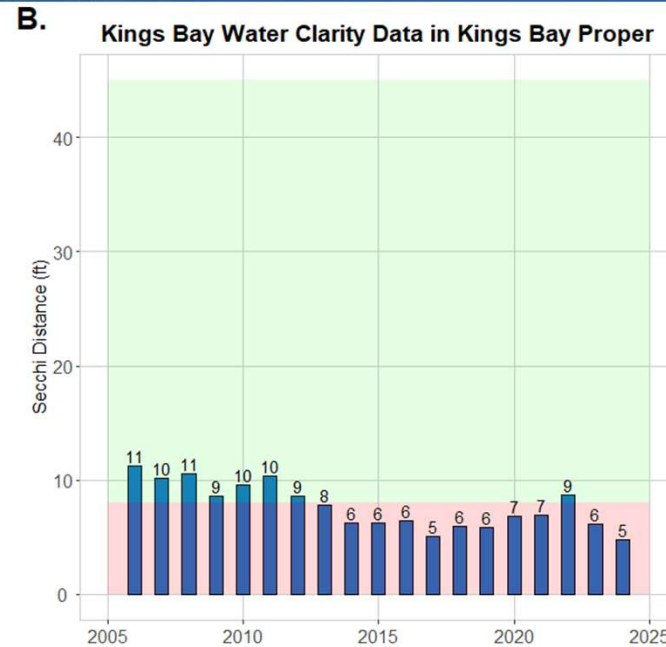
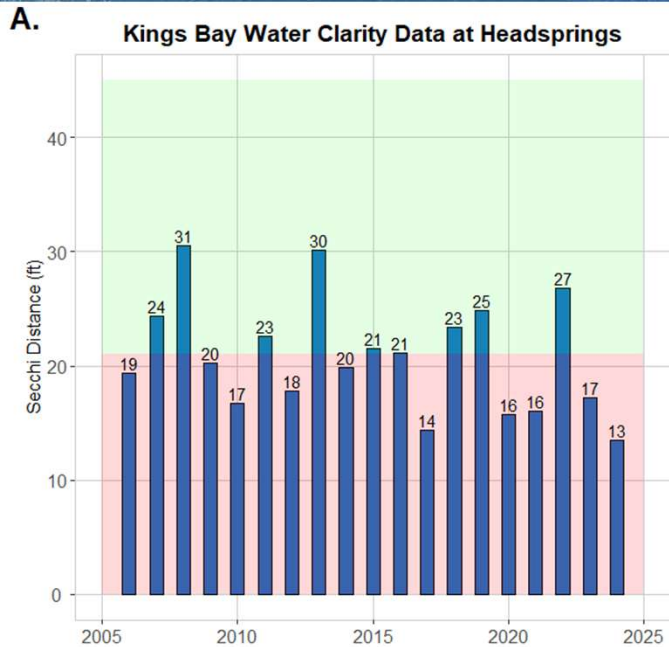


Average Invasive SAV in Kings Bay



## SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

# Crystal River/Kings Bay - Indicators Water Clarity & Chlorophyll





## SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

# Homosassa River

## Indicators & Quantifiable Objectives

### Indicators

	Water clarity	Threshold
👉	Near the headspring	40 ft
👉	Middle portion of river	11 ft

### Quantifiable Objectives

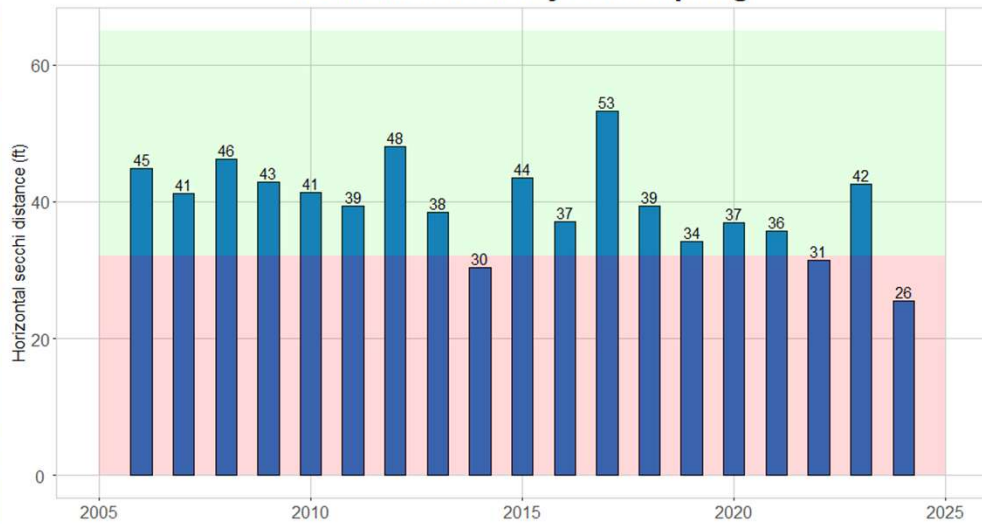
	Water quality	Target
👉	Nitrate concentration in the springs	< 0.23 mg/L
	Water quantity	
👍	Minimum flows for the springs and river	> 95% natural flow
	Natural systems	
👉	Coverage of desirable submerged aquatic vegetation in the tidal freshwater habitat.	> 40%
👉	Coverage of desirable submerged aquatic vegetation in the transition zone.	> 25%
👉	Coverage of desirable submerged aquatic vegetation in the estuarine zone.	> 10%
👉 👍 👍	Coverage of invasive aquatic vegetation in the tidal freshwater habitat, transition zone, and estuarine zone.	< 10%
👍	No net loss of shoreline in natural condition along the river.	No net loss.

## SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

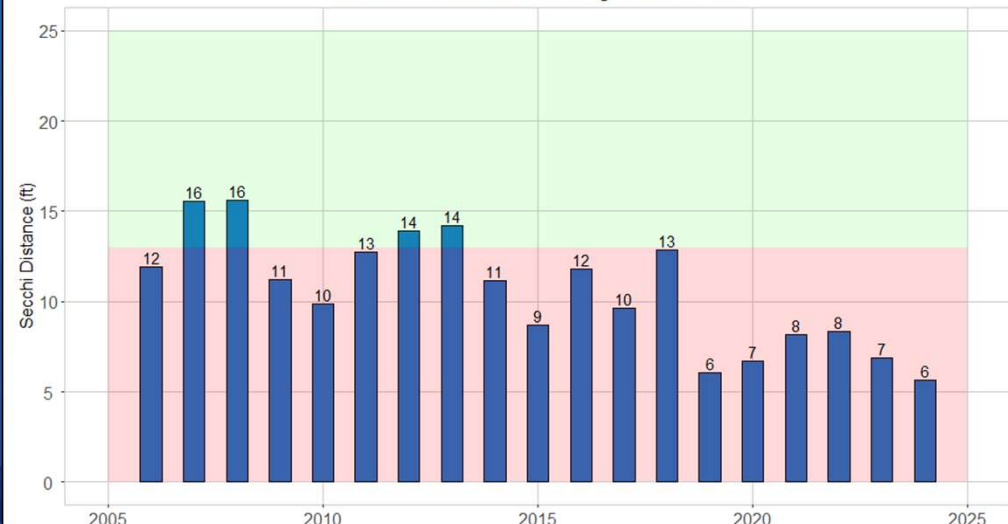
# Homosassa River - Indicators Water Clarity



Mean Water Clarity: Headspring



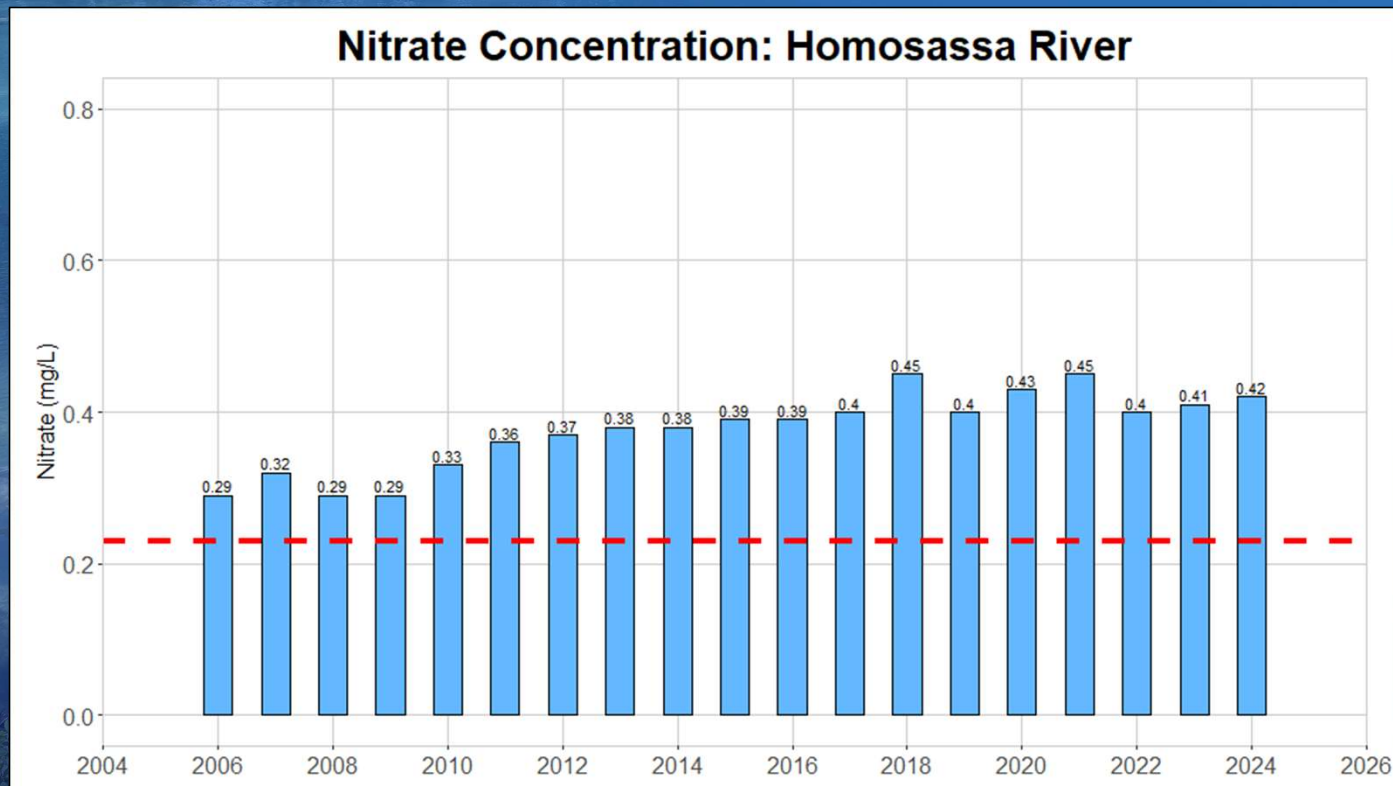
Mean Water Clarity: Middle





# Homosassa River – Quantifiable Objectives

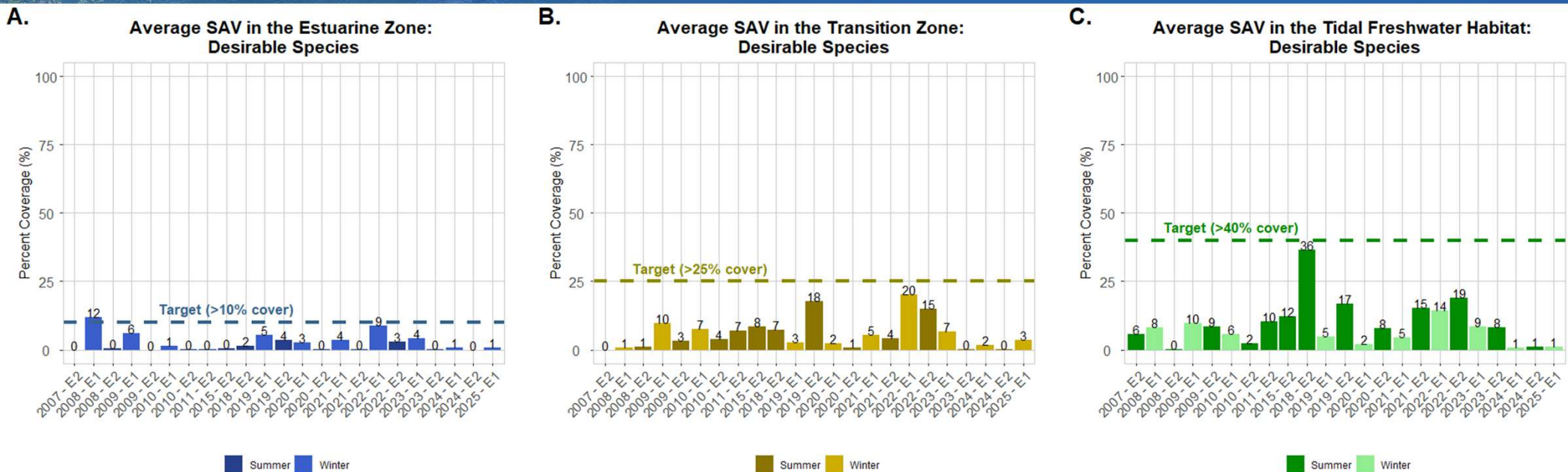
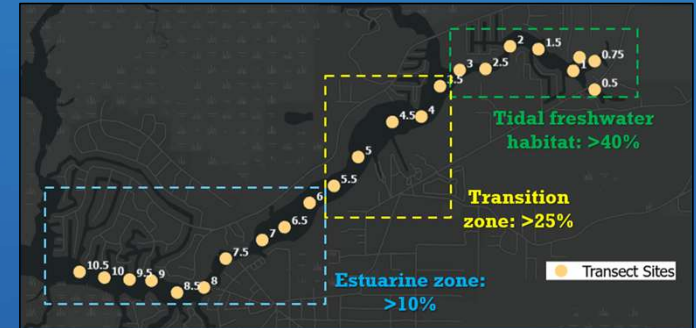
## Nitrate Concentration



## SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

# Homosassa River – Quantifiable Objectives

### Desirable Submerged Aquatic Vegetation (SAV)

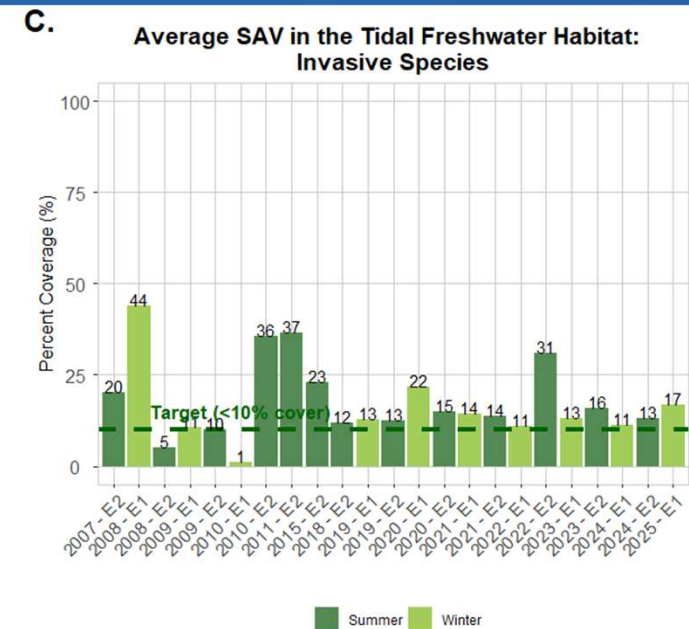
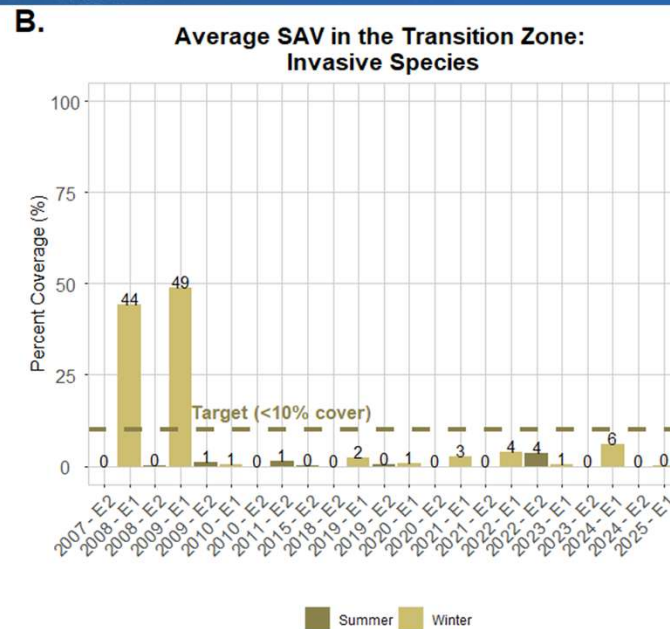
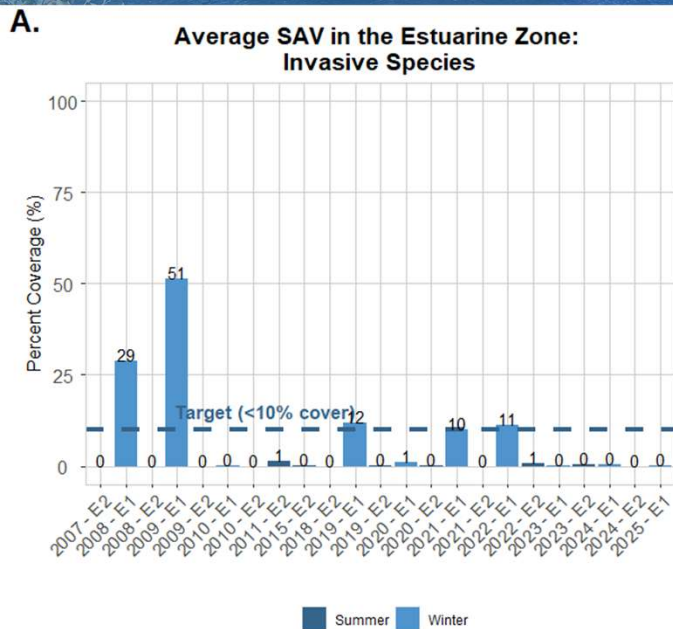
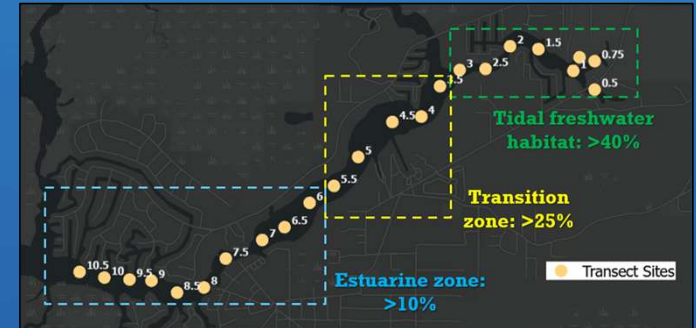




## SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

# Homosassa River – Quantifiable Objectives

## Invasive Submerged Aquatic Vegetation (SAV)



## SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

# Chassahowitzka River

## Indicators & Quantifiable Objectives

### Indicators

	Water clarity	Threshold
👉	Near the headspring	32 ft
👉	Middle portion of river	13 ft

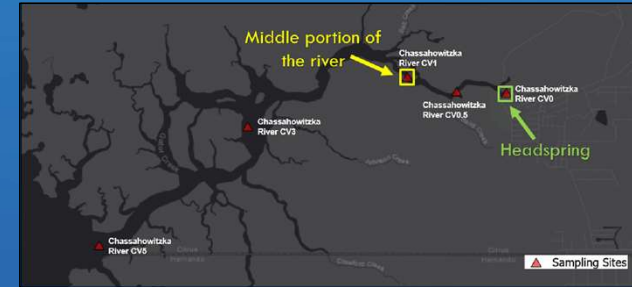
### Quantifiable Objectives

	Water quality	Target
👉	Nitrate concentration in the springs	< 0.23 mg/L
👉	Total nitrogen concentration in the river	< 0.25 mg/L
	Water quantity	
👍	Minimum flows for the springs and river	> 92% natural flow
	Natural systems	
👉	Coverage of desirable submerged aquatic vegetation in the tidal freshwater habitat.	> 55%
👉	Coverage of desirable submerged aquatic vegetation in the transition zone.	> 45%
👉	Coverage of desirable submerged aquatic vegetation in the estuarine zone.	> 25%
👉	Coverage of invasive aquatic vegetation in the tidal freshwater habitat, transition zone, and estuarine zone.	< 10%

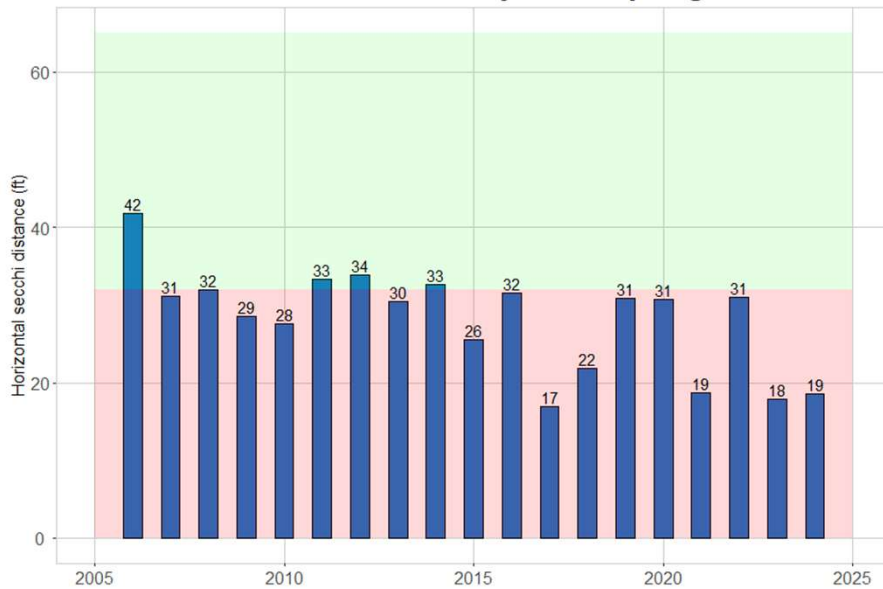


# Chassahowitzka River - Indicators

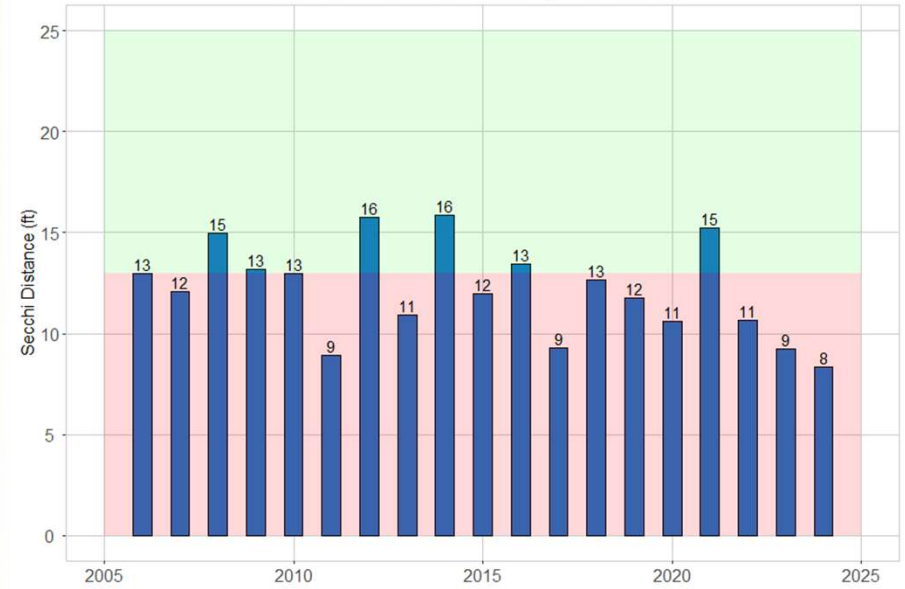
## Water Clarity



Mean Water Clarity: Headspring

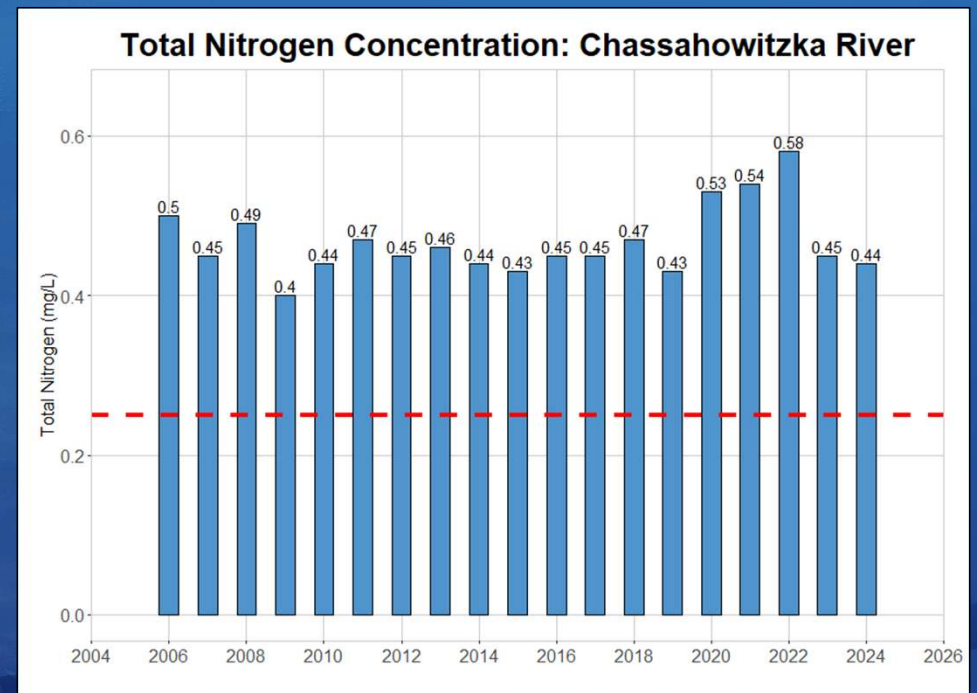
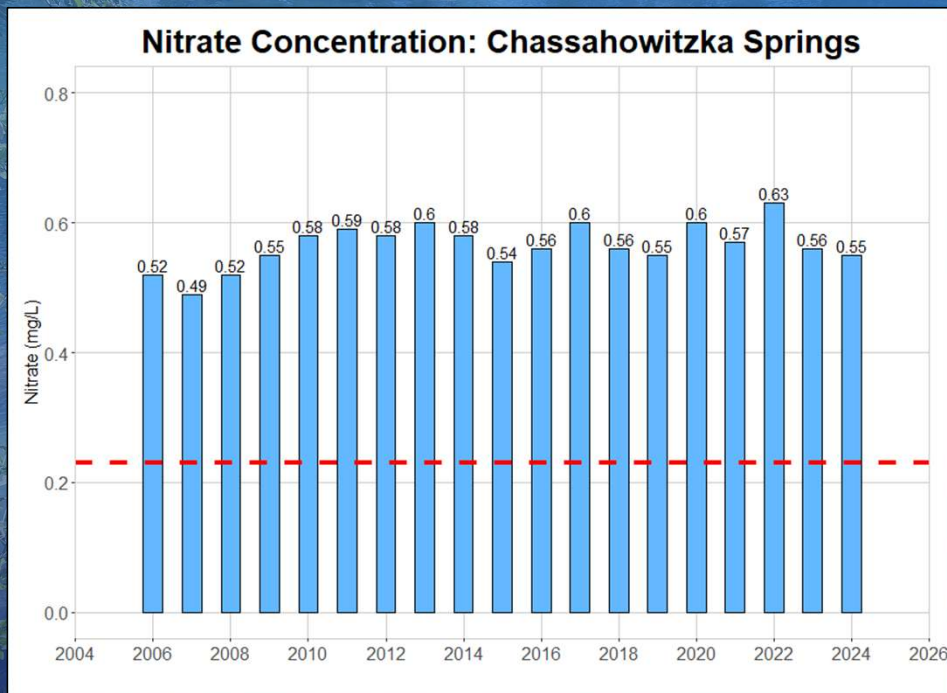


Mean Water Clarity: Middle



# Chassahowitzka River – Quantifiable Objectives

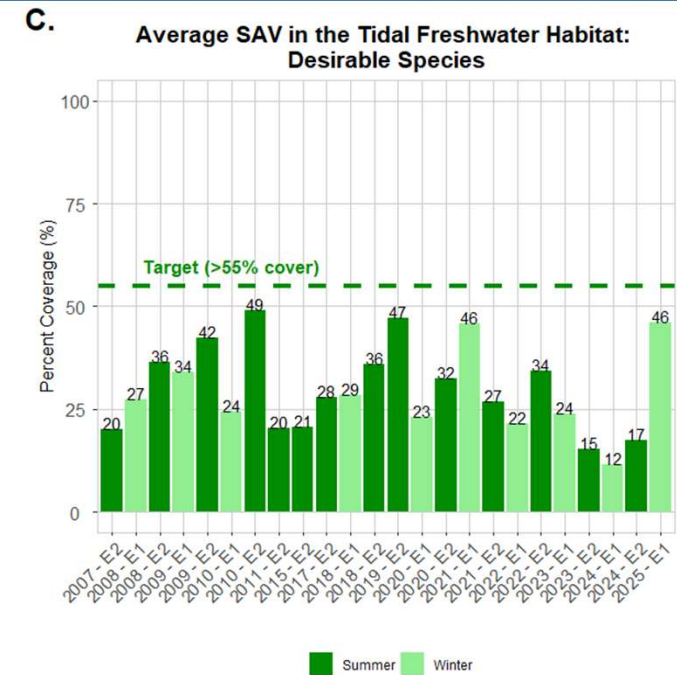
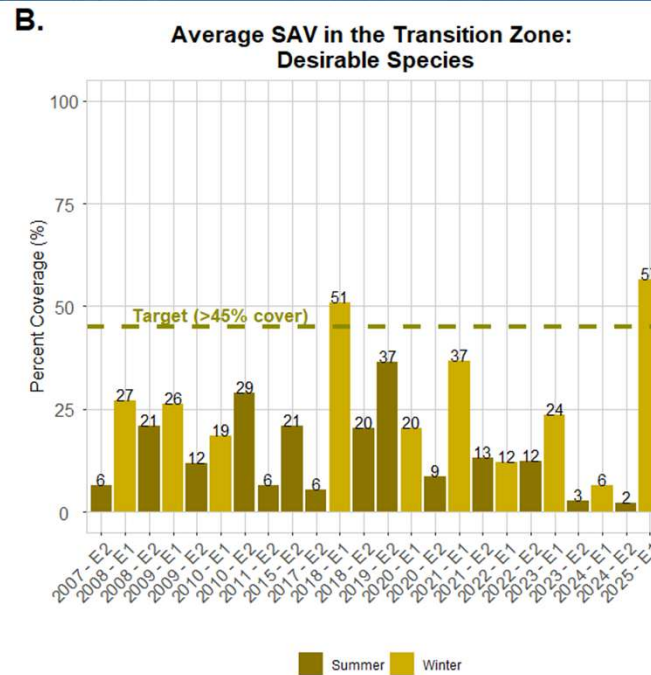
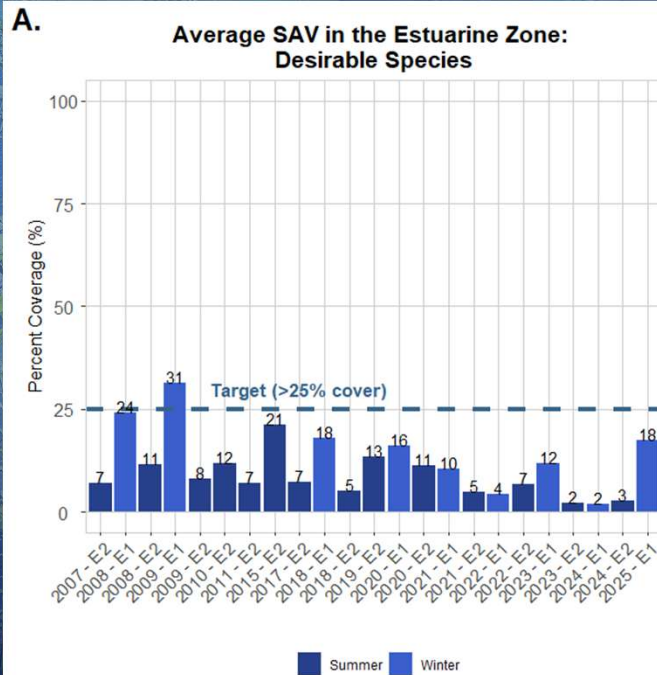
## Nitrate & Total Nitrogen Concentrations





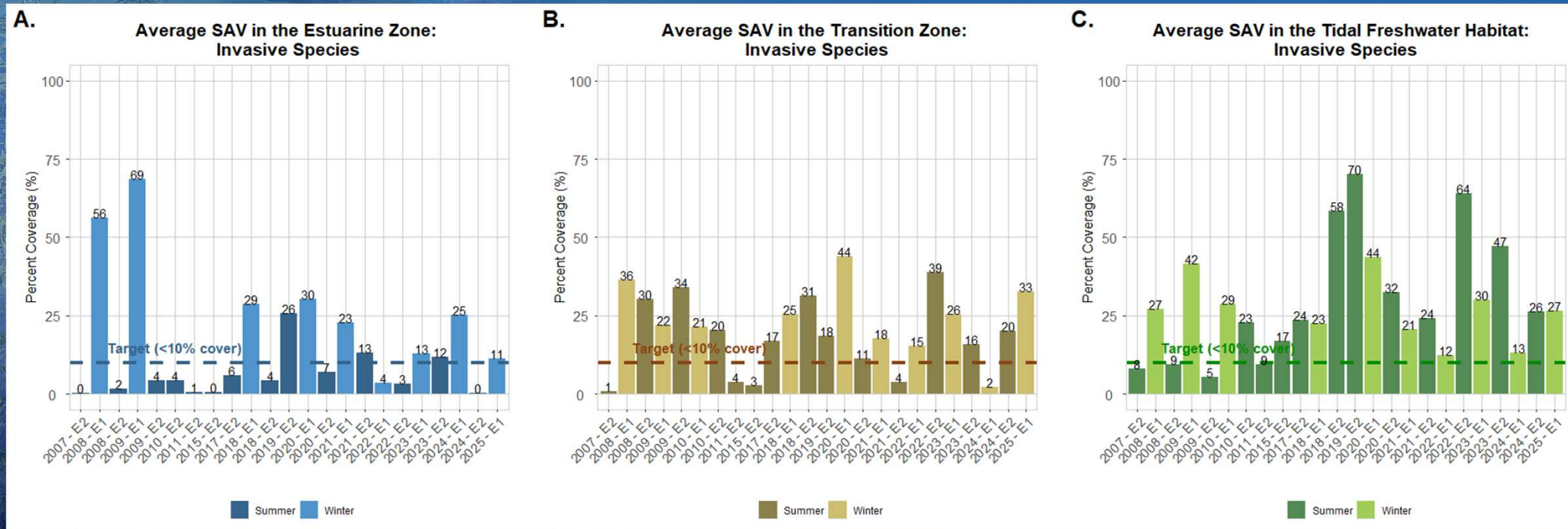
## SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

# Chassahowitzka River – Quantifiable Objectives Desirable Submerged Aquatic Vegetation (SAV)



## SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

# Chassahowitzka River – Quantifiable Objectives Invasive Submerged Aquatic Vegetation (SAV)





## SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

### Springs in West-Central Florida

[Springs Intro](#) [Learn About Springs](#) [Threats to Springs](#) [Protecting Springs](#) [Springs and Septic Tanks](#) [FAQs](#) [Springs Committees](#)

#### Understanding Florida Springs

Climate change • Climate change refers to long-term shifts in temperatures and...

Share


#### First Magnitude Springs in West-Central Florida

Chassahowitzka Springs	»
Crystal River/Kings Bay	»
Homosassa Springs	»
Rainbow Springs	»
Weeki Wachee Springs	»

[Sign up for Our Springs](#)

#### Data Collection

Water quality is routinely monitored in the Chassahowitzka River, with some parameters collected hourly. The data is available through the District's **Environmental Data Portal**. Various information is collected including nitrate levels, water clarity, spring flow and salinity. Submerged aquatic vegetation is currently mapped twice a year within the river at specified locations. A summary of the current data for the Chassahowitzka River in relation to the parameters collected by the District can be viewed in this report:

 [Environmental Monitoring of the Chassahowitzka River](#)

[WaterMatters.org/springs](https://WaterMatters.org/springs)

SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

**[WaterMatters.org/springs](https://WaterMatters.org/springs)**



Southwest Florida  
*Water Management District*

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