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M E M O R A N D U M

TO: John Mitnik, Assistant Executive Director, Executive Office Staff

FROM: SFWMD Staff Environmental Advisory Team

DATE: September 10, 2025

SUBJECT: Weekly Environmental Conditions for Systems Operations

Summary

Weather Conditions and Forecast

A frontal boundary with very high moisture will remain in place through Thursday, supporting heavy, scattered to numerous afternoon thunderstorms across much of the region. Above-average rainfall is likely Wednesday and Thursday. An upper-air disturbance will initially reinforce the stationary frontal zone on Thursday over the state before pushing it southward. On Friday, areas north of the Lake should remain mostly dry, while continued heavy showers and thunderstorms will be possible south of the Lake and along portions of the lower east coast. By Friday night, the frontal boundary is expected to clear the area, ushering in drier and slightly cooler northerly to northeasterly winds through the weekend. The leading computer models even suggest the front could clear the entire state, which would bring unusually dry mid-September conditions across the region, with rainfall limited to only isolated light showers along parts of the east coast and the Florida Keys. While it remains uncertain how long the below-normal rainfall pattern will persist, some long-range guidance suggests the frontal zone may lift back northward late next week. This would bring a return of rainfall to areas south of the Lake and along the lower east coast. For the 7-day period ending next Tuesday morning, near to above-average total SFWMD rainfall remains likely.

Kissimmee

In the past week, releases were made from East Lake Toho and Lake Toho to keep lake stage at the regulation schedule line. Releases from Kissimmee-Cypress-Hatchineha (KCH) followed the Headwaters Revitalization Schedule (HRS) Increment 1 Temporary Deviation Discharge Plan. Weekly average discharge on September 7, 2025, was 3,500 cfs at S-65 and 4,100 cfs at S-65A, respectively. Mean weekly water depth on the Kissimmee River floodplain increased by 0.58 feet to 1.94 feet. The weekly average concentration of dissolved oxygen in the Kissimmee River decreased from the previous week's value of 0.2 mg/L to 0.1 mg/L and remained in the lethal zone for Florida bass and other species.

Lake Okeechobee

Lake Okeechobee stage was 11.41 feet NAVD88 (12.72 ft NGVD29) on September 7, 2025, which was 0.18 feet higher than the previous week and 0.62 feet higher than a month ago. Average daily inflows (excluding rainfall) were similar to the previous week, at 4,240 cfs. Average daily outflows (excluding evapotranspiration) decreased from 120 cfs the previous week to 30 cfs. The most recent non-obscured satellite image from August 22, 2025, NOAA's Harmful Algal Bloom Monitoring System suggests moderate cyanobacteria potential along most of the nearshore areas of the lake, with higher areal coverage in the north and east.

Estuaries

Total inflow to the St. Lucie Estuary averaged 1,039 cfs over the past week with no flow coming from Lake Okeechobee. Mean surface salinities decreased at all sites over the past week. Salinity in the middle estuary was in the optimal range (10-25) for adult eastern oysters.

Total inflow to the Caloosahatchee Estuary averaged 3,086 cfs over the past week with no flow coming from Lake Okeechobee. Over the past week, salinities remained below 1 at S-79, Val I-75, and Ft. Myers, decreased at Cape Coral and Shell Point, and increased at Sanibel. Mean salinities were in the optimal range (0-10) for tape grass in the upper estuary. Salinities were in the optimal range (10-25) for adult oysters at Shell Point and Sanibel, and in the lower stressed range (5-10) at Cape Coral.

Stormwater Treatment Areas

For the week ending Sunday, September 7th, 2025, 100 ac ft of Lake Okeechobee water was delivered to the FEBs/STAs. The total amount of Lake releases sent to the FEBs/STAs in WY2026 is approximately 32,000 ac-feet. The total amount of inflows to the STAs in WY2026 is approximately 315,200 ac-feet. Online STA treatment cells are at or above target stage. STA-1E Central Flow-way is offline for construction activities. Operational restrictions are in effect in STA-1E Western Flow-way, STA-2 Flow-ways 2 and 4, and STA-3/4 Eastern Flow-way for vegetation management activities. Additional restrictions are in place in STA-2 Flow-way 3 for post-drawdown vegetation grow-in. This week, if LOSOM recommends Lake releases to the WCAs and conditions allow, releases will be sent to STA-3/4 and STA-2.

Everglades

Above average rainfall fell over the Everglades Protection Area (EPA) throughout the past week and corresponded with all basins, except for Everglades National Park (ENP), experiencing increased ascension rates across the system. These increases in depth align with the majority of stage change rates being categorized as good. Depths continue to remain well below average (in the 10th percentile) for this time of year except in ENP and WCA-2A, which are both now at or approaching the 50th percentile across the majority of each basin. Taylor Slough stages increased last week and remain above the recent average (1993-2016) for this time of year. Florida Bay salinities declined, primarily in the central and western zones. The central and western regions are now just below the 75th percentile, while the eastern region remains just above that metric. All Florida Bay regions are now well below the hypersalinity threshold.

Supporting Information

Kissimmee Basin

Upper Kissimmee

On September 7, 2025, mean daily lake stages were 55.7 feet NAVD88 (0.1 feet above schedule) in East Lake Toho, 52.5 feet NAVD88 (0.1 feet above schedule) in Lake Toho, and 50.5 feet NAVD88 (0.1 feet above the Increment 1 Temporary Deviation schedule) in Lakes Kissimmee-Cypress-Hatchineha (KCH) (**Table KB-1, Figures KB-1-3**).

Lower Kissimmee

For the week ending September 7, 2025, mean weekly discharge was 3,500 cfs at S-65 and 4,100 cfs at S-65A, respectively. Mean weekly discharge from the Kissimmee River was 3,600 cfs and 3,400 cfs at S-65D and S-65E, respectively (**Table KB-2**). Mean weekly headwater stages were 45.9 feet NAVD88 at S-65A and 27.0 feet NAVD88 at S-65D. Mean weekly river channel stage increased by 0.8 feet from the previous week to 37.1 feet NAVD88 (**Figure KB-4**). Mean weekly water depth on the Kissimmee River floodplain increased by 0.58 feet to 1.94 feet (**Table KB-2, Figure KB-5**). The weekly average concentration of dissolved oxygen in the Kissimmee River decreased from 0.2 mg/L the previous week to 0.1 mg/L (**Table KB-2, Figure KB-6**). A fish kill in the Kissimmee River was reported in association with this low DO event.

Water Management Recommendations

In KCH, follow the Headwaters Revitalization Schedule (HRS) Increment 1 Temporary Deviation Discharge Plan for S-65/S-65A (**Figure KB-7**). With KCH stage in Zone A of Increment 1, make releases as needed for flood risk management. When stage decreases into Zone B1, use the Increment 1 Interpolation Tool to determine discharge relative to stage in KCH.

Table KB-1. Average discharge for the preceding seven days, Sunday's average daily stage and Sunday's average daily departure from Kissimmee Chain of Lakes (KCOL) flood regulation lines or temporary schedules. All data are provisional.

Water Body	Structure	Stage Monitoring Site	Weekly (7-Day) Average Discharge (cfs)	Sunday Lake Stage (feet NAVD88) ^a	Schedule Type ^b	Sunday Schedule Stage (feet NAVD88)	Sunday Departure from Regulation (feet)	
							9/7/25	8/31/25
Lakes Hart and Mary Jane	S-62	LKMJ	300	59.0	R	58.9	0.1	0.4
Lakes Myrtle, Preston and Joel	S-57	S-57	72	60.1	R	60.0	0.1	0.2
Alligator Chain	S-60	ALLI	190	62.2	R	62.2	0.0	0.0
Lake Gentry	S-63	LKGT	250	59.9	R	59.9	0.0	-0.1
East Lake Toho	S-59	TOHOE	680	55.7	R	55.6	0.1	0.2
Lake Toho	S-61	TOHOW S-61	1500	52.5	R	52.4	0.1	0.4
Lakes Kissimmee, Cypress and Hatchineha	S-65	KUB011 LKIS5B	3500	50.5	T	50.4	0.1	0.3

a. Names of in-lake monitoring sites and structures used to determine lake stage. If more than one site is listed, an average is reported.

b. A: projected recession line; R: USACE regulation schedule; S: temporary recession target line; T: temporary schedule; NA: not applicable or not available.

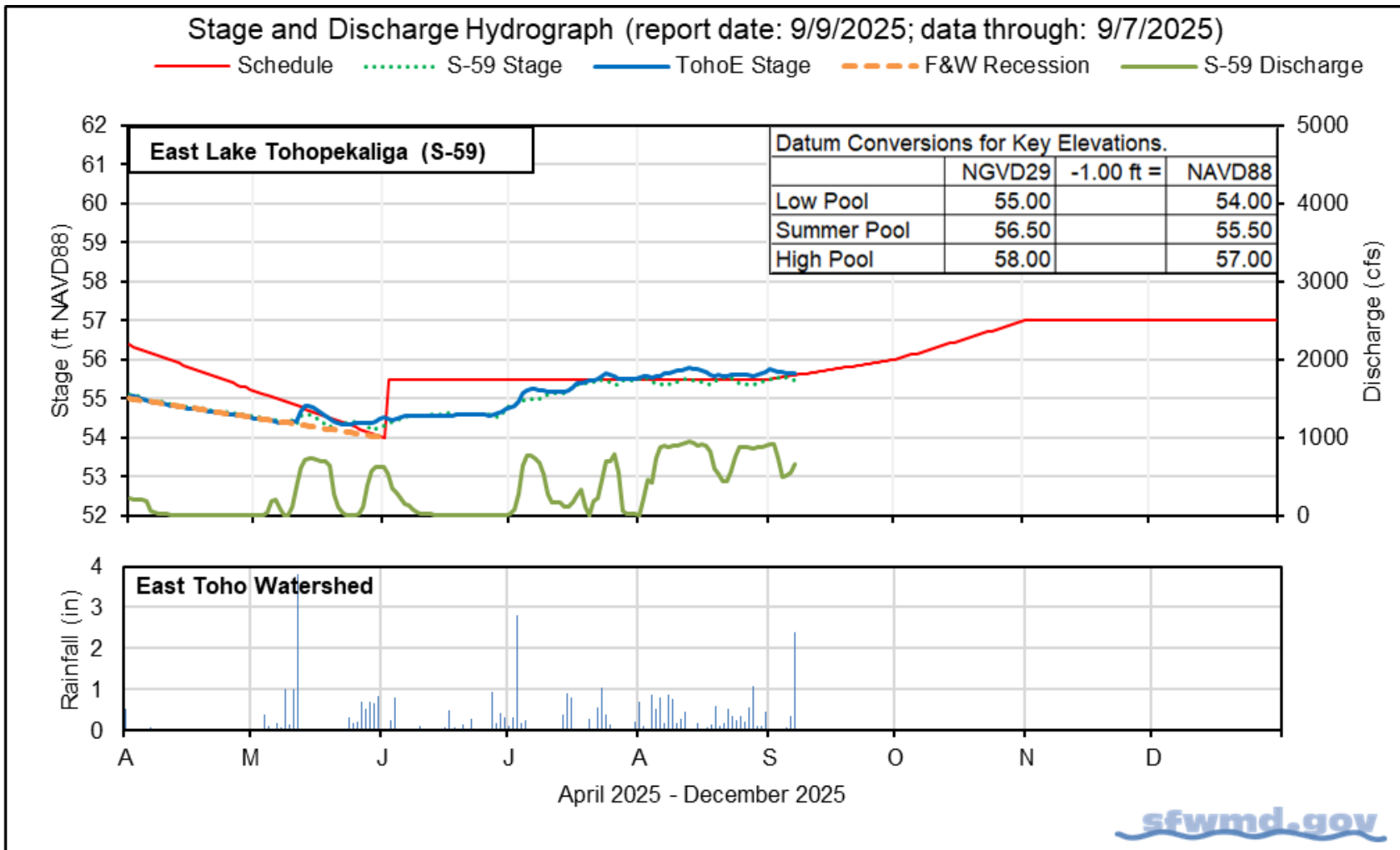


Figure KB-1. East Lake Toho regulation schedule, stage, discharge, and rainfall.

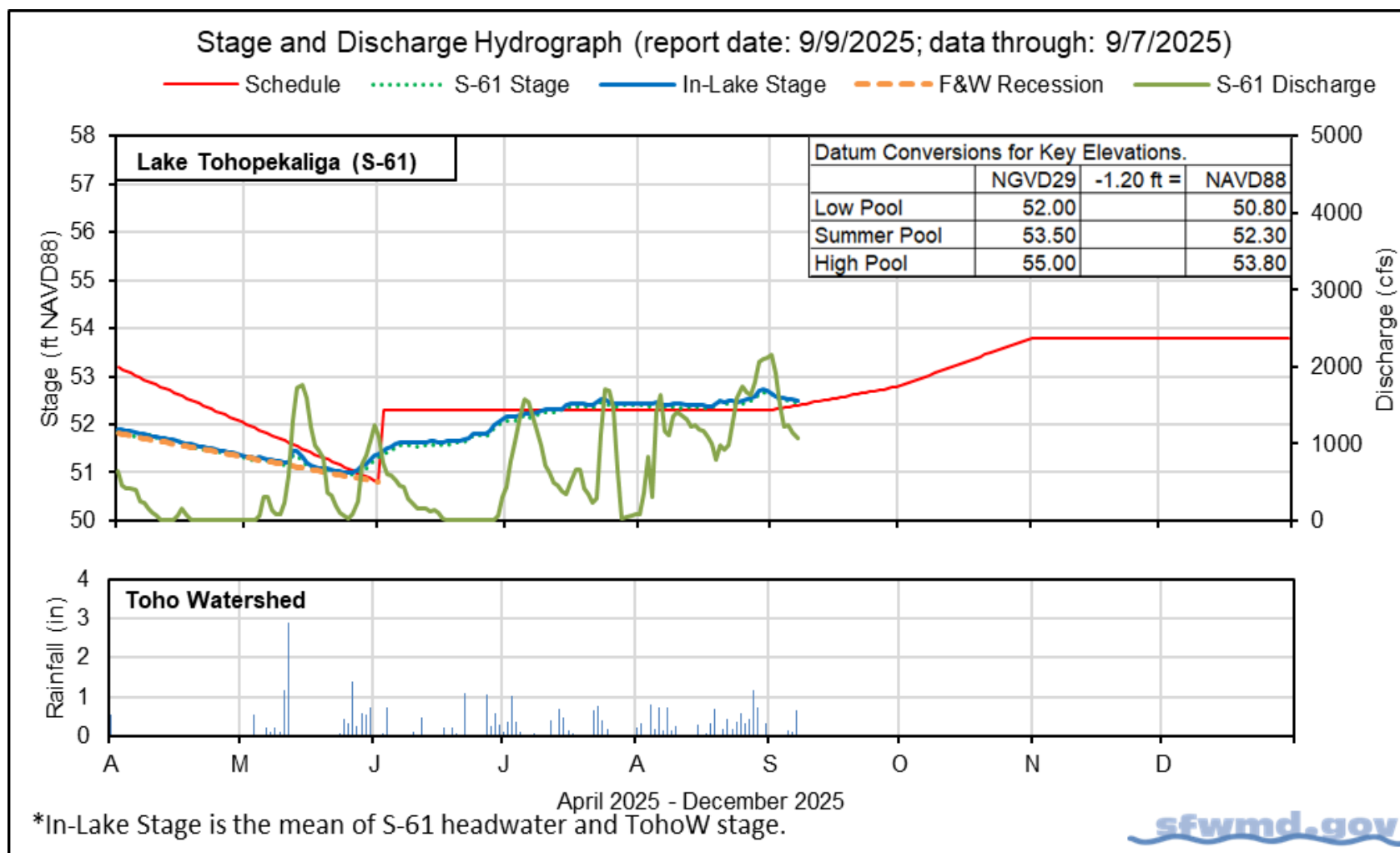


Figure KB-2. Lake Toho regulation schedule, stage, discharge, and rainfall.

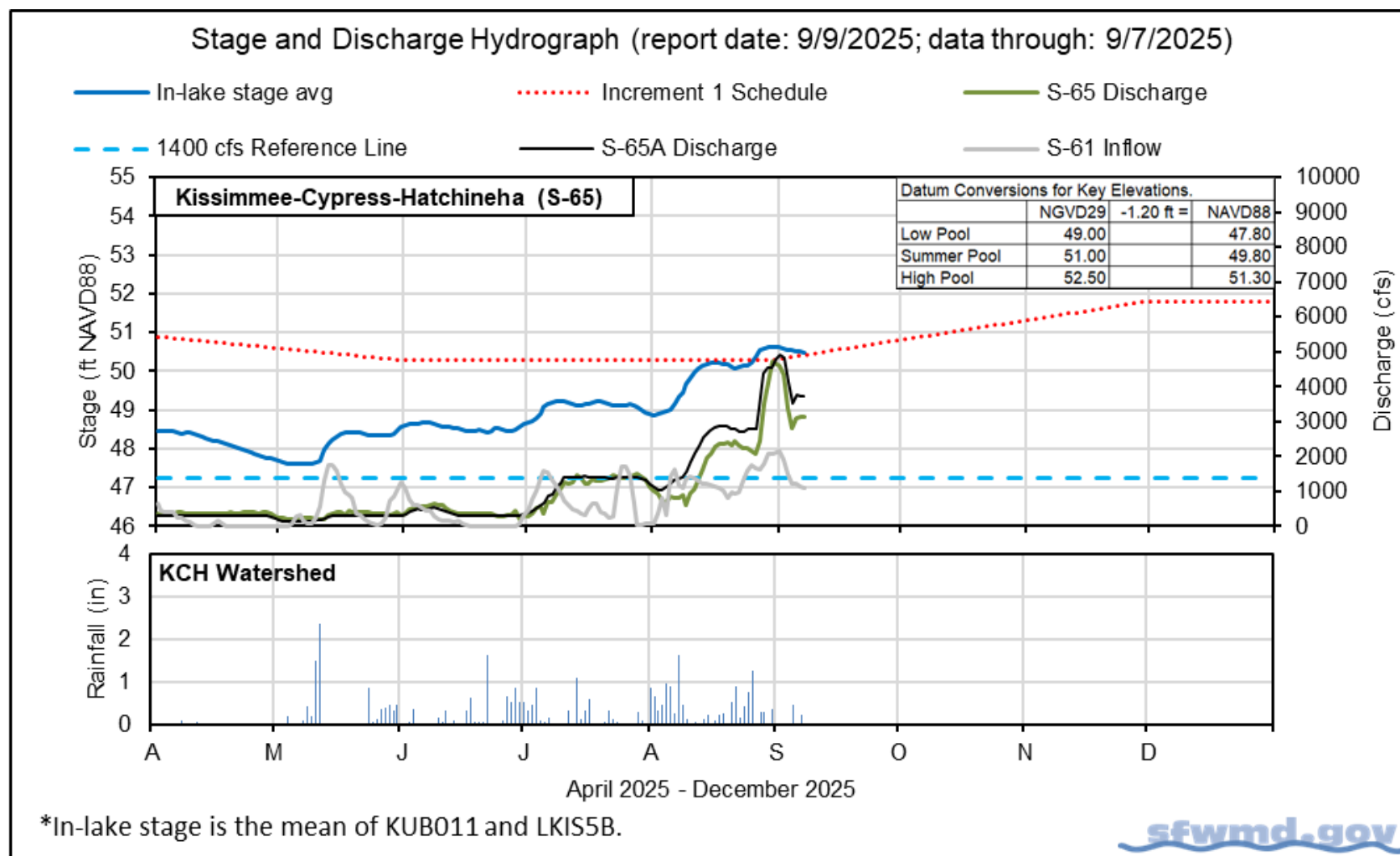


Figure KB-3. Lakes Kissimmee, Cypress and Hatchineha regulation schedule, stage, discharge, and rainfall.

Table KB-2. One- and seven-day average discharge and stage at Lower Kissimmee basin structures, river channel dissolved oxygen concentrations and water depths in the Phase I area floodplain. All data are provisional.

Metric	Location	Sunday Daily Average	Weekly Average for Previous Seven Day Periods			
		9/7/25	9/7/25	8/31/25	8/24/25	8/17/25
Discharge	S-65	3,100	3,500	3,400	2,300	1,800
Discharge	S-65A ^a	3,700	4,100	3,900	2,800	2,600
Headwater Stage (feet NAVD88)	S-65A	45.5	45.9	45.7	45.1	45.2
Discharge	S-65D ^b	4,500	3,600	2,800	2,300	1,400
Headwater Stage (feet NAVD88)	S-65D ^c	27.1	27.0	26.1	25.8	25.5
Discharge (cfs)	S-65E ^d	4,300	3,400	2,600	2,100	1,300
Discharge (cfs)	S-67	0	0	0	0	0
Dissolved Oxygen (mg/L) ^e	Phase I, II/III river channel	0.0	0.1	0.2	0.0	0.3
River channel mean stage (feet NAVD88) ^f	Phase I river channel	37.9	37.9	37.1	36.9	36.2
Mean depth (feet) ^g	Phase I floodplain	1.98	1.94	1.36	1.24	0.90

a. Combined discharge from main and auxiliary structures.

b. Combined discharge from S-65D, S-65DX1, and S-65DX2.

c. Average stage from S-65D and S-65DX1.

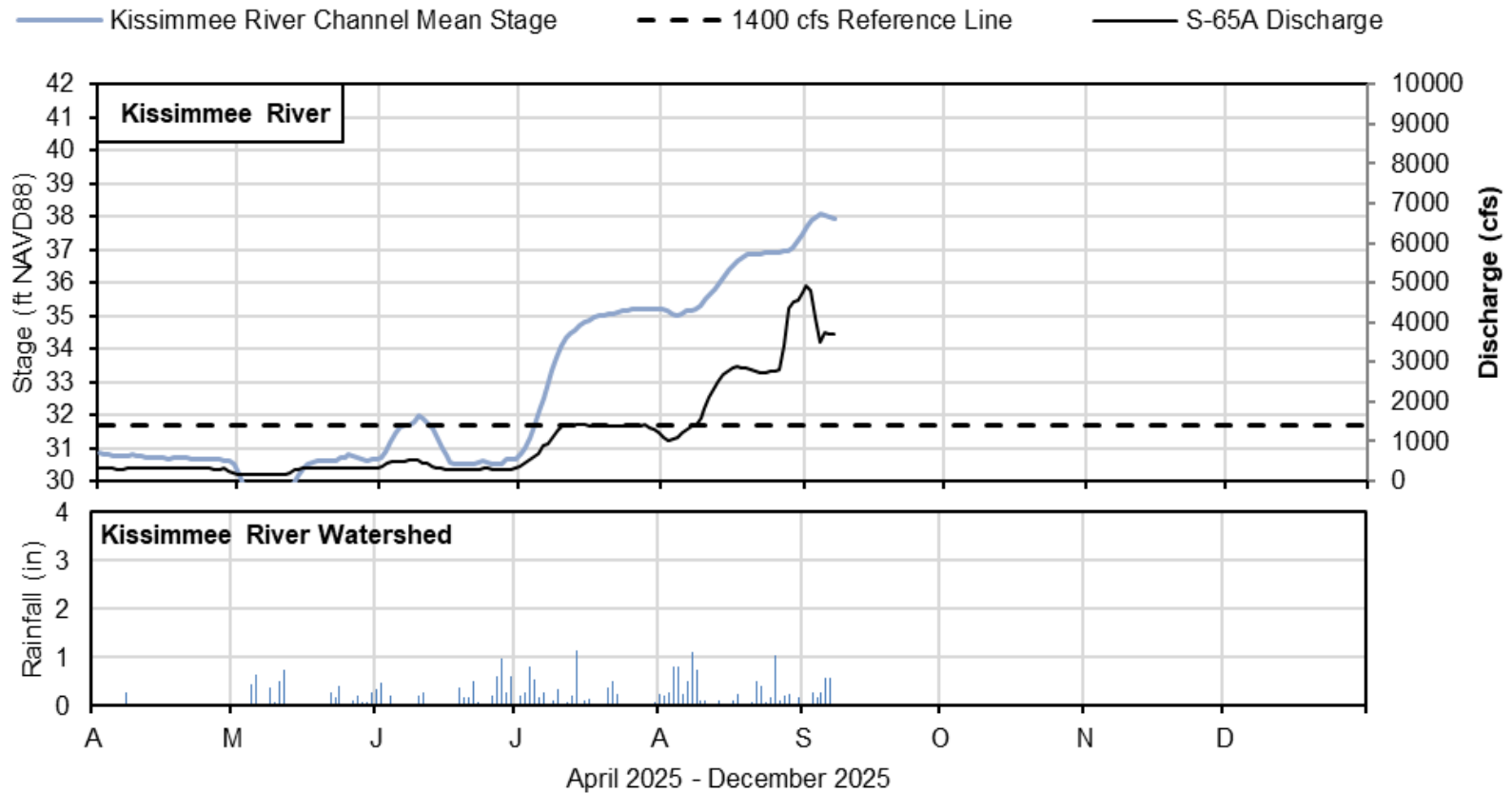
d. Combined discharge from S-65E and S-65EX1.

e. Dissolved oxygen is the average of values from sondes KRBN, PC62, PC33, PD62R, and PD42R.

f. Mean of five river channel stations (PC62, KRDR02, KRBN, PC33, PC11) in the Phase I area.

g. One-day spatial average obtained from the South Florida Water Depth Assessment Tool (SFWDAT).

Stage and Discharge Hydrograph (report date: 9/9/2025; data through: 9/7/2025)



*River Channel Stage is the average for PC62, KRDR02, KRBN, PC33, and PC11.

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Figure KB-4. Kissimmee River stage, discharge, and rainfall.

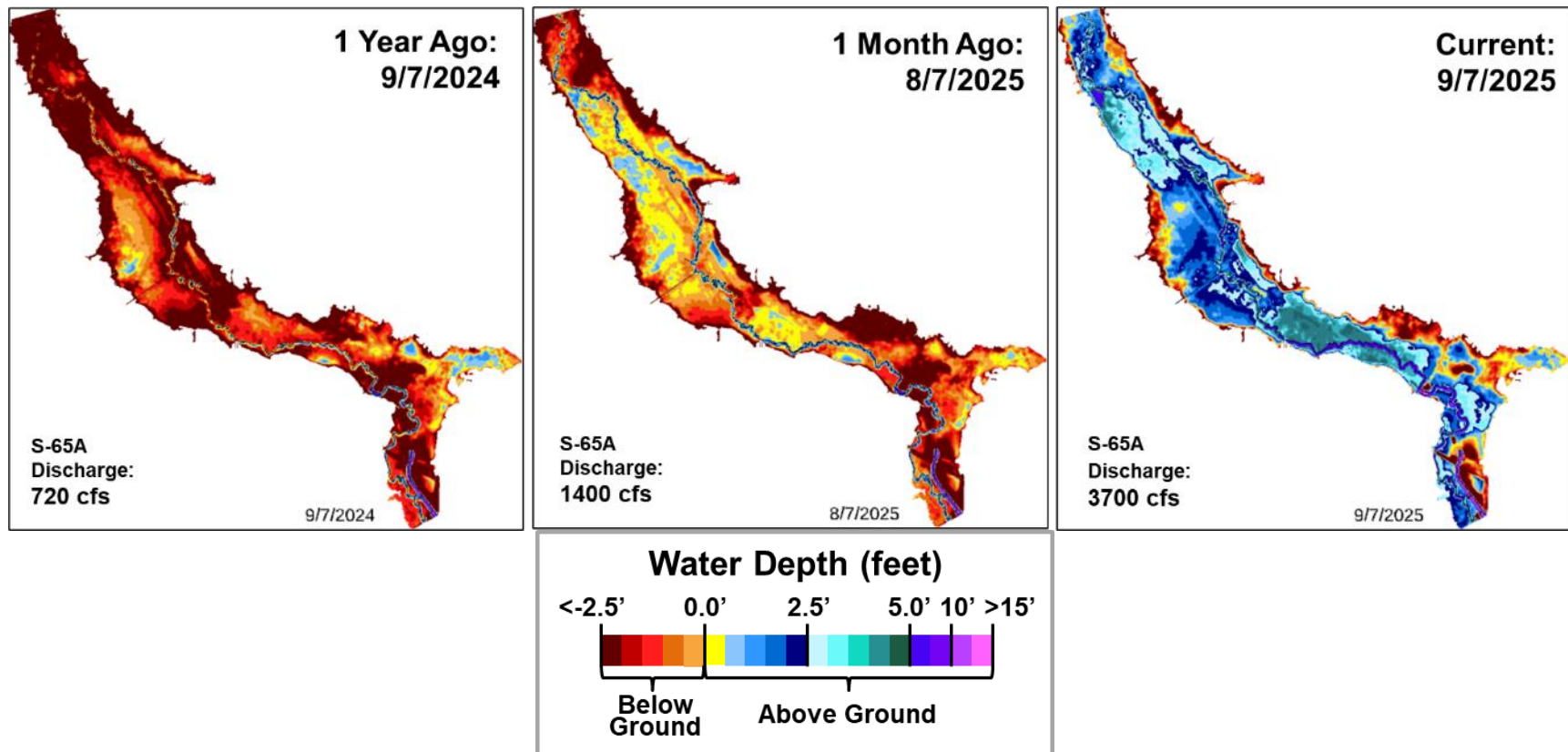
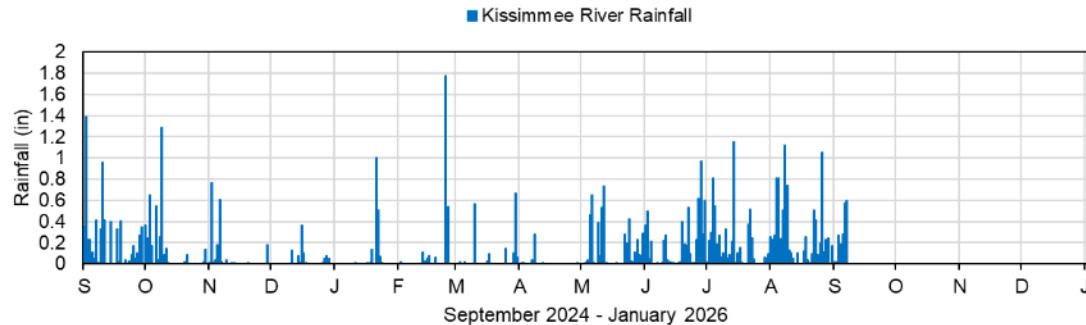
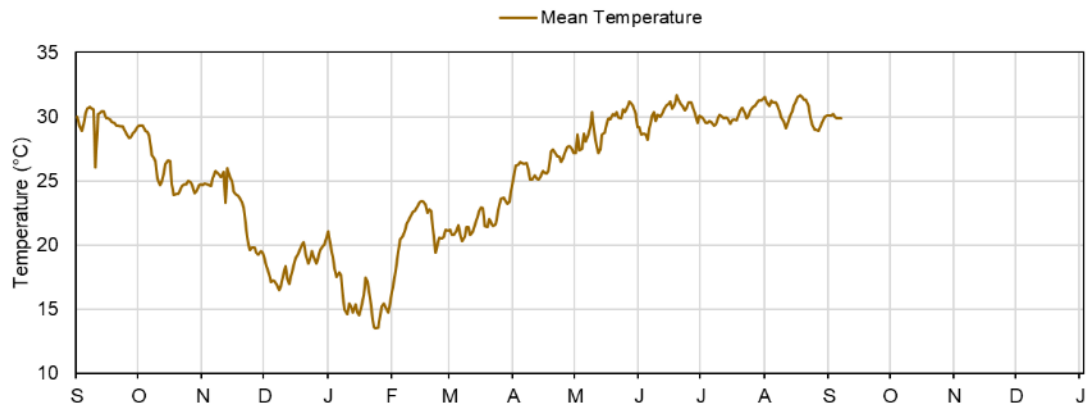
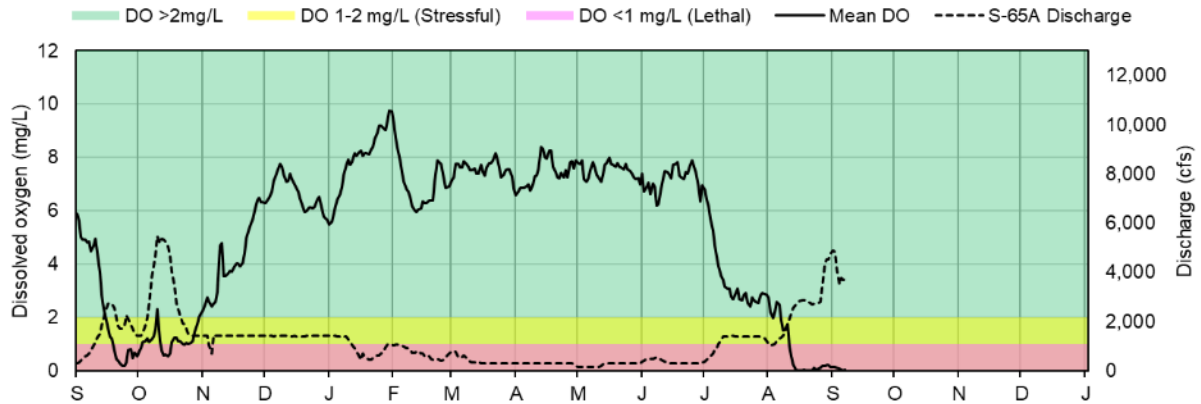


Figure KB-5. Phase I-II-III area Kissimmee River floodplain water depths (from left to right) one year ago, one month ago, and current.



Report Date: 9/9/2025; data are through: 9/7/2025

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Figure KB-6. Kissimmee River channel mean daily dissolved oxygen concentration (mg/L), S-65A discharge (cfs), temperature (°C) and rainfall (inches). Dissolved oxygen (DO) and temperature are mean daily values averaged for PC62, KRDR02, KRBN, PC33, PC11, PD62R, and PD42R with an average of five stations reporting this week. Rainfall values are daily totals for Kissimmee River (Pool BCD) AHED watershed.

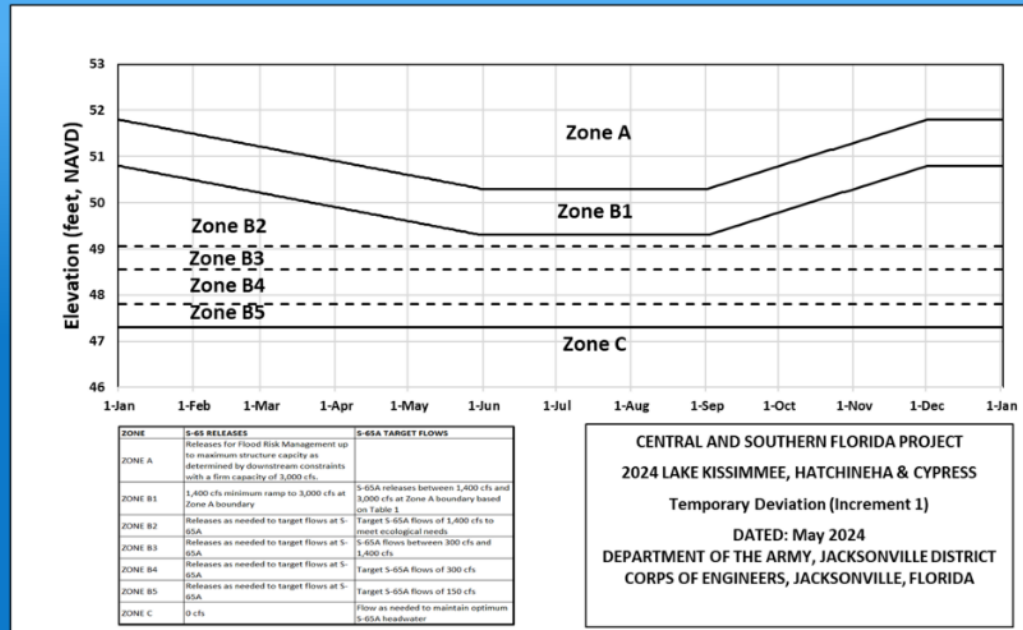
SOUTH FLORIDA WATER MANAGEMENT DISTRICT

HRS Increment 1 Temporary Deviation Discharge Plan for S-65/S-65A

Discharge Guidance for Increment 1 Temporary Deviation Discharge Plan		
ZONE	S-65 RELEASES	S-65A TARGET FLOWS
ZONE A	Releases for Flood Risk Management up to maximum structure capacity as determined by downstream constraints with a firm capacity of 3,000 cfs.	
ZONE B1	1,400 cfs minimum ramp to 3,000 cfs at Zone A boundary	S-65A releases between 1,400 cfs and 3,000 cfs at Zone A boundary based on Table 1
ZONE B2	Releases as needed to target flows at S-65A	Target S-65A flows of 1,400 cfs to meet ecological needs
ZONE B3	Releases as needed to target flows at S-65A	S-65A flows between 300 cfs and 1,400 cfs
ZONE B4	Releases as needed to target flows at S-65A	Target S-65A flows of 300 cfs
ZONE B5	Releases as needed to target flows at S-65A	Target S-65A flows of 150 cfs
ZONE C	0 cfs	Flow as needed to maintain optimum S-65A headwater

Table KB-3. Maximum Rate of Change Limits for S-65A		
MAXIMUM Release Rate of Change Limits for S-65A. In general recommended rates of change will be slower than shown in this table.		
Q (cfs)	Maximum rate of INCREASE (cfs/day)	Maximum rate of DECREASE (cfs/day)
0-300	50	-50
301-650	75	-75
651-1400	150	-150
1401-3000	300	-600
>3000	1000	-2000

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Other Considerations

- When possible, limit lake ascension rate in the Jun 1 - Aug 15 window to 0.25 ft per 7 days in Lakes Kissimmee, Cypress, Hatchineha (S-65), East Toho (S-59) and Toho (S-61).
- If outlook is for extreme dry conditions meet with KB staff to discuss modifications to this plan.

Slide Revised 7/29/2024

Figure KB-7. Headwaters Revitalization Schedule (HRS) Increment 1 Temporary Deviation Discharge Plan for S-65/S-65A.

Lake Okeechobee

Lake Okeechobee stage was 11.41 feet NAVD88 (12.72 ft NGVD29) on September 7, 2025, which was 0.18 feet higher than the previous week and 0.62 feet higher than a month ago (**Figure LO-1**). Lake stage is in Zone D of the regulation schedule (**Figure LO-2**), is within the recovery ecological envelope, and is 0.20 feet above the water shortage management band (**Figure LO-3**). According to NEXRAD, 1.14 inches of rain fell directly over the Lake during the previous week, while 0.97 inches were lost to evapotranspiration.

Average daily inflows (excluding rainfall) were similar to the previous week, at 4,240 cfs. The highest inflows came from the Kissimmee River (3,370 cfs via S-65E(X1)). Average daily outflows (excluding evapotranspiration) decreased from 120 cfs the previous week, to 30 cfs. **Figures LO-4 and LO-5** show the combined average daily inflows and outflows for the lake over the past eight weeks, and average inflows and outflows last week, respectively.

In the most recent non-obscured satellite image from September 6, 2025, NOAA's Harmful Algal Bloom Monitoring System suggests moderate cyanobacteria potential along most of the nearshore areas of the lake, with higher areal coverage in the north and east (**Figure LO-6**).

Note: All data presented in this report are provisional and are subject to change.

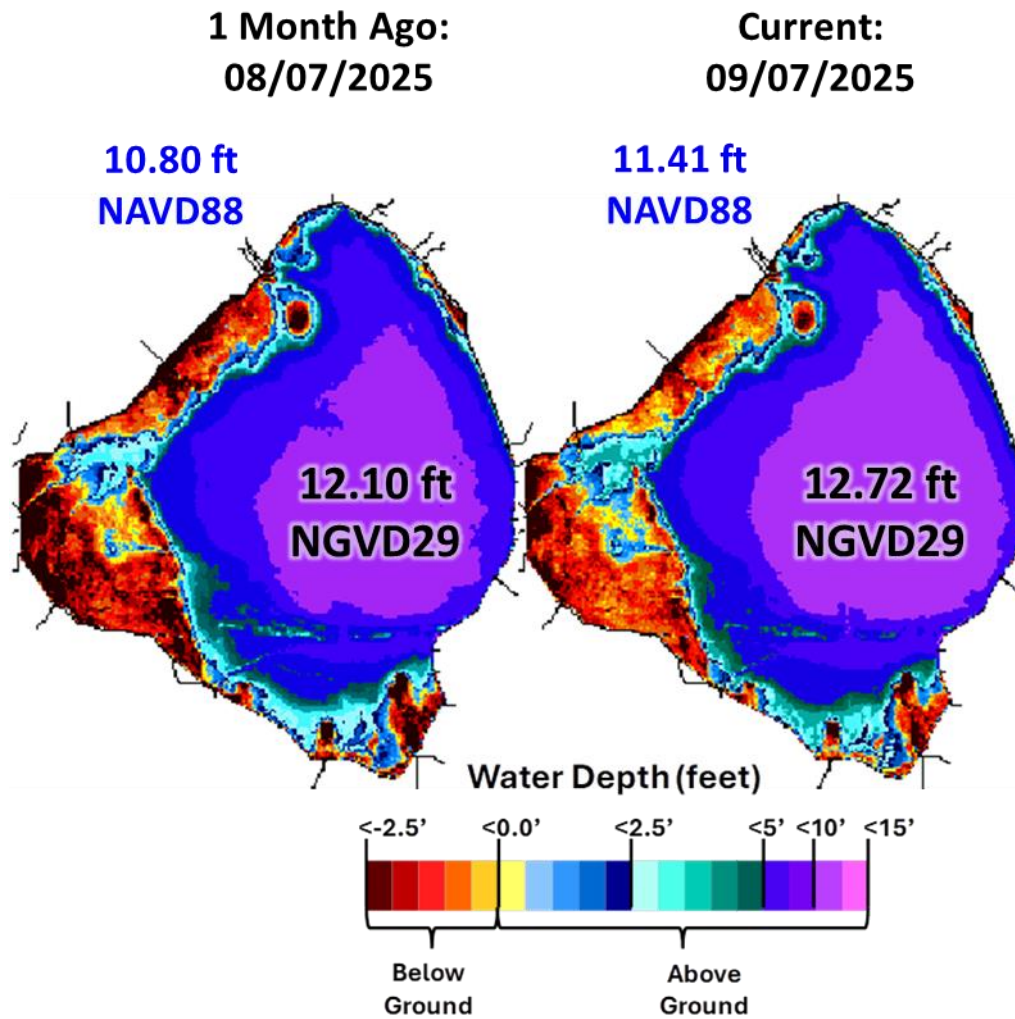


Figure LO-1. Lake Okeechobee water depth estimates based on South Florida Water Depth Assessment Tool (SFWDAT).

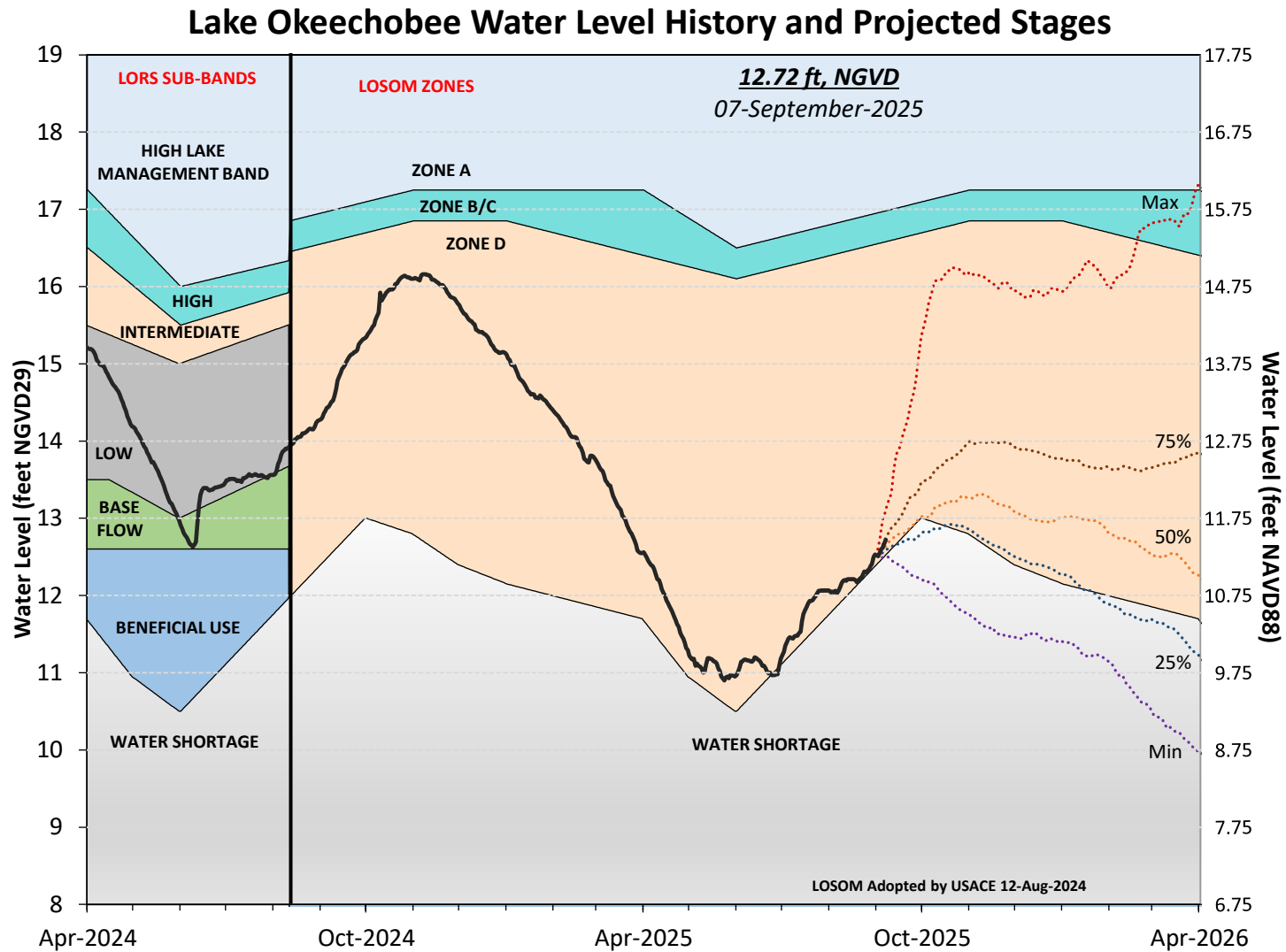


Figure LO-2. Recent Lake Okeechobee stages with projected stages based on a dynamic position analysis.
 Note: stages are in NGVD29, approximate NAVD88 values are shown for reference.

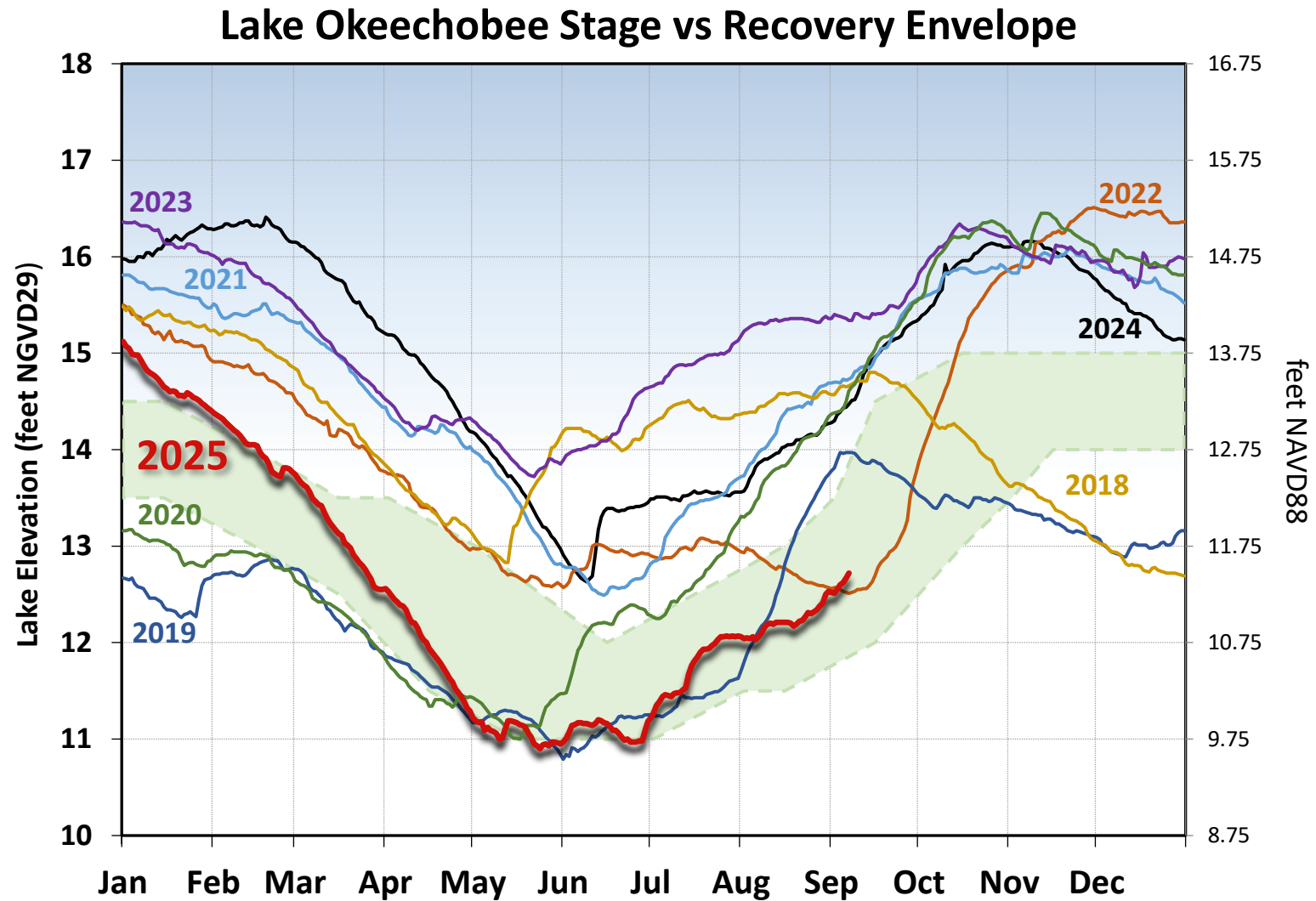


Figure LO-3. The current and seven prior year's annual stage hydrographs for Lake Okeechobee in comparison to the recovery envelope (light green). A shift from the normal ecological envelope to the recovery envelope occurred because the 30-day minimum lake stage (elevations exposed for at least 30 days, nonconsecutively) in the June 1 – July 31, 2023, window was >13 ft NGVD29 (11.75 ft NAVD88).

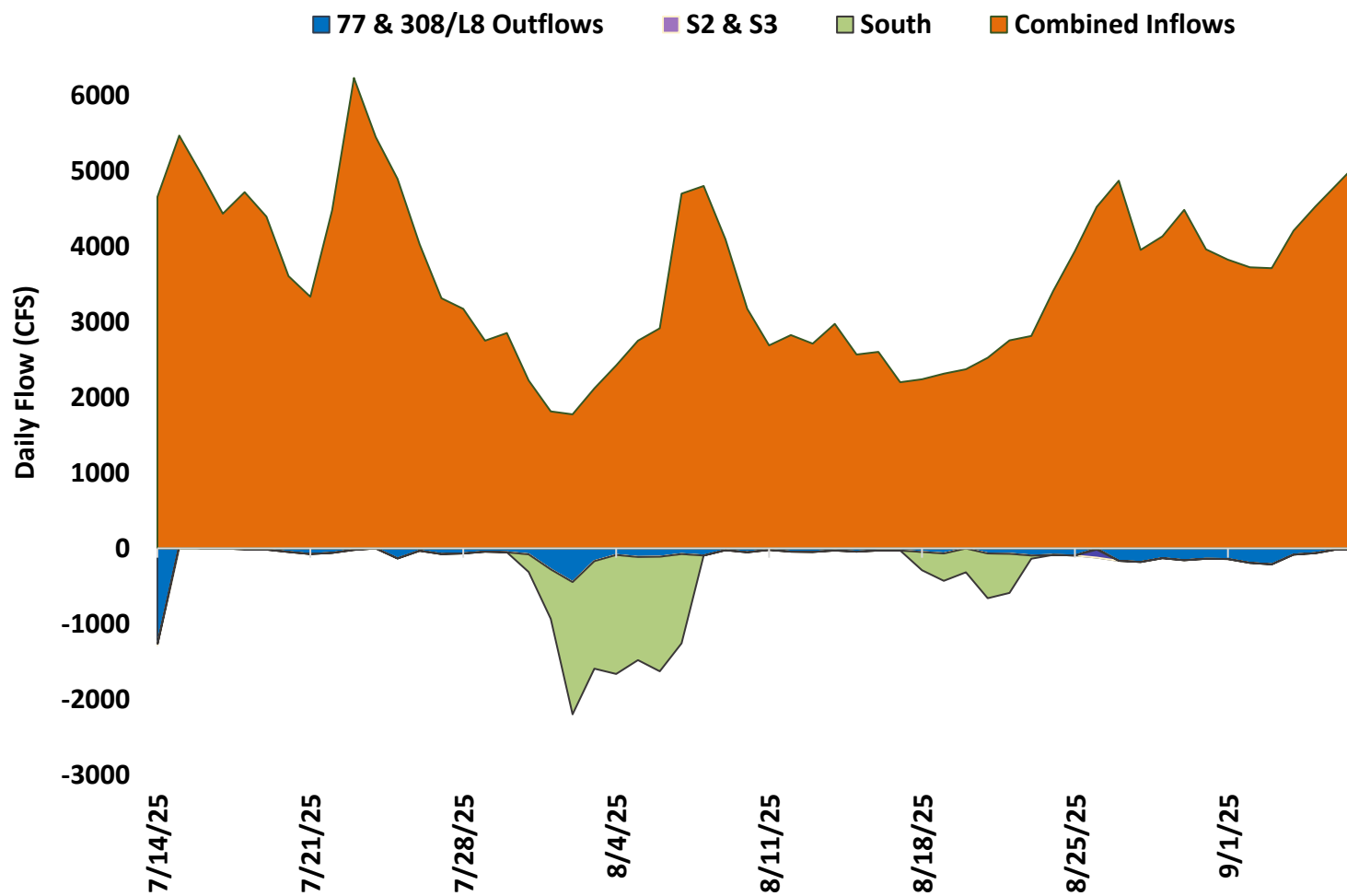


Figure LO-4. Major inflows (orange) to and outflows east and west (blue) from Lake Okeechobee. Outflows south are shown in green. Flows into Lake Okeechobee from the L-8 canal through S-271 (formerly Culvert 10A) or from the C-44 canal through the S-308 are included as inflows. Conversely, flows from Lake Okeechobee into the L-8 or C-44 canals are included with outflows. Inflows are shown as positive values; outflows are negative. Outflows through the S-77 (Caloosahatchee) and S-308 (C-44 Canal) structures are based on downstream gauges to include flows to lock openings for navigation.

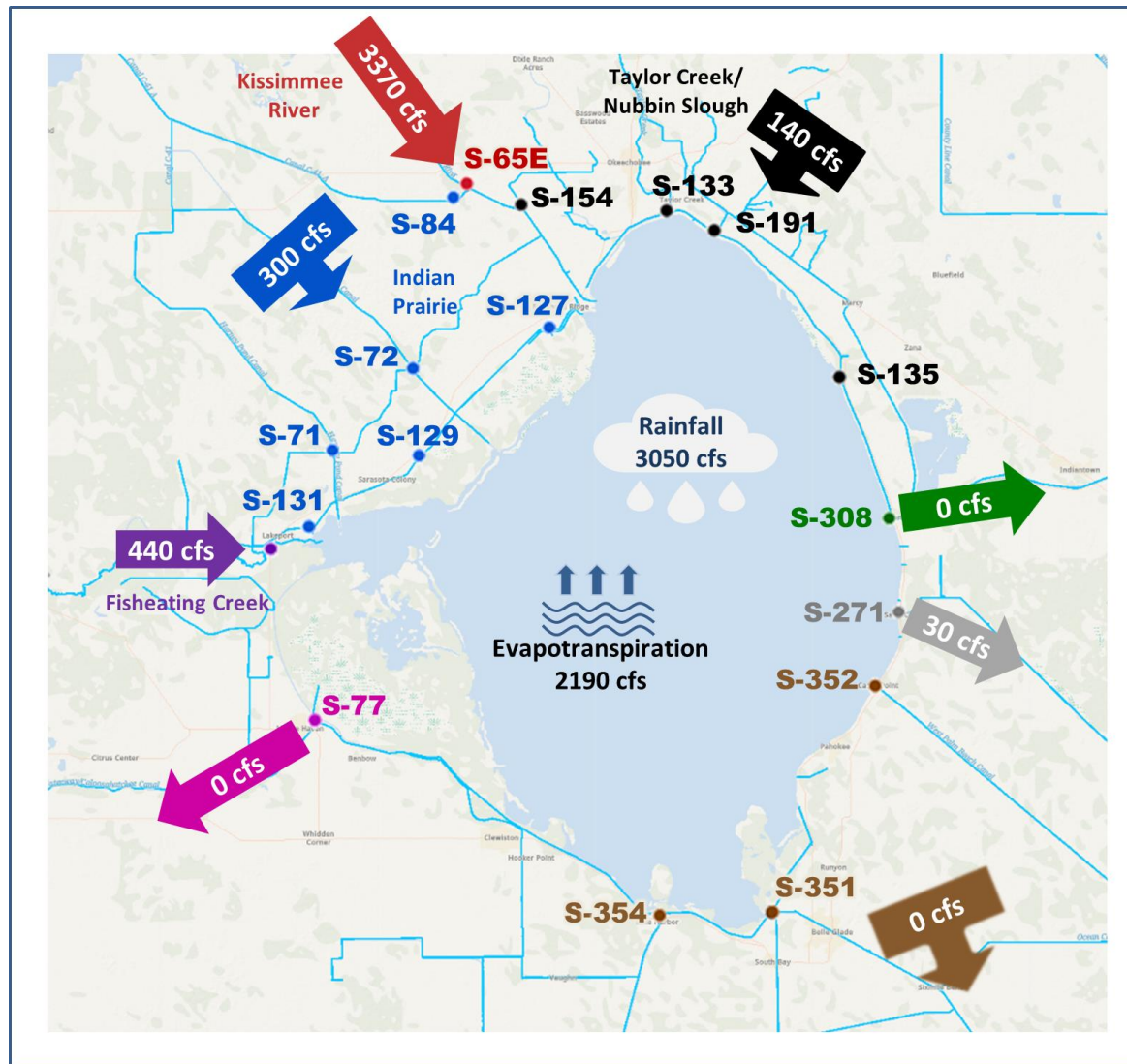


Figure LO-5. Inflows into Lake Okeechobee from Indian Prairie basins, Taylor Creek/Nubbin Slough, Kissimmee River and Fisheating Creek (currently no flow data available for FECR), and outflows to the west via S-77, to the east via S-308, to the south via S-351, S-352, S-354, and to southeast via S-271 (formerly Culvert 10A) for the week of Sep 1 – 7, 2025.

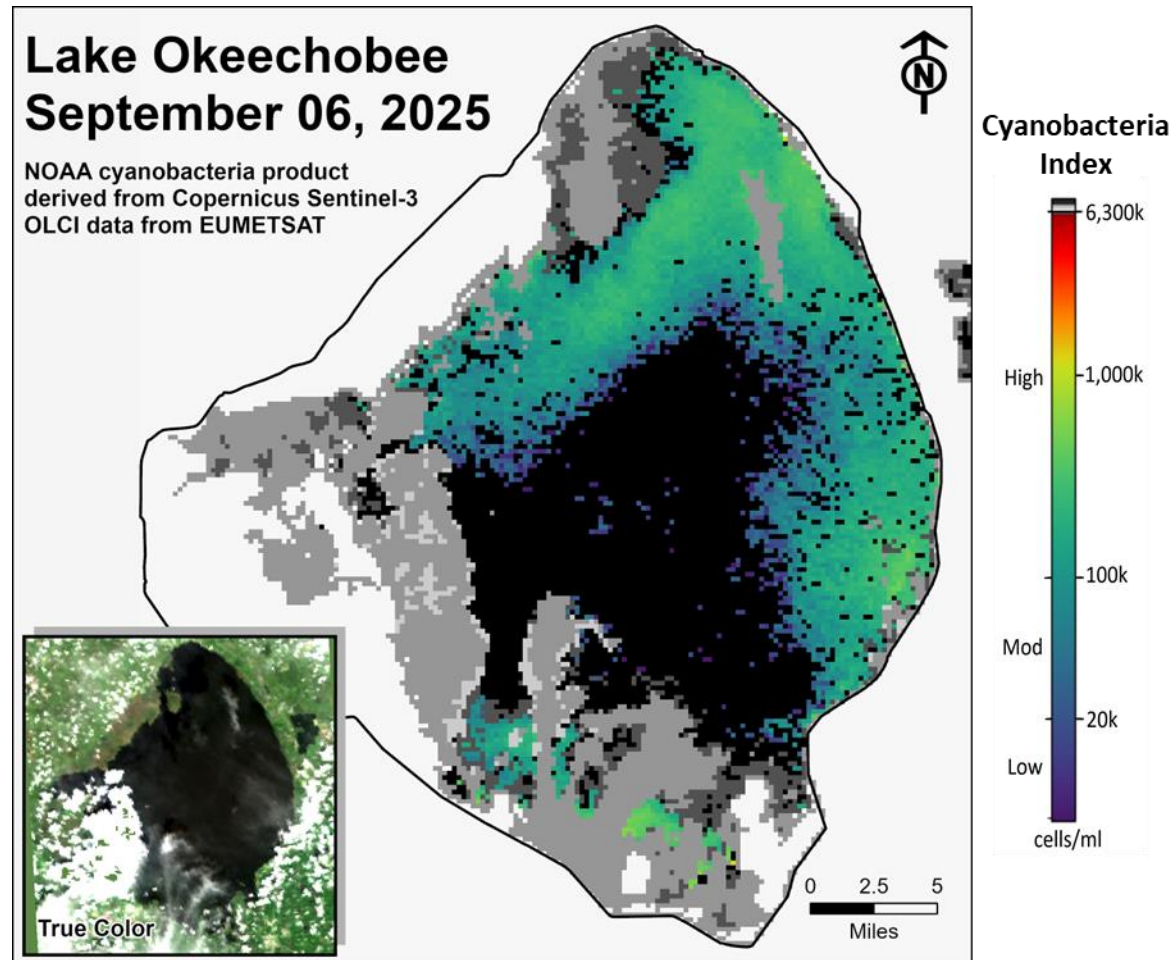


Figure LO-6. Cyanobacteria bloom index level on Lake Okeechobee, based on NOAA's harmful algal bloom monitoring system. Gray color indicates cloud cover. *Provisional NOAA image, subject to change*.

Estuaries

St. Lucie Estuary

Over the past week, mean total inflow to the St. Lucie Estuary was 1,039 cfs (**Figures ES-1 and ES-2**), and the previous 30-day mean inflow was 995 cfs. For comparison, the historical provisional mean inflows from contributing areas are shown in **Figure ES-2**.

Over the past week, surface salinities decreased at all sites within the estuary (**Table ES-1 and Figure ES-3**). The seven-day moving average of the surface and bottom salinities at the US1 Bridge was 19.1. Salinity conditions in the middle estuary were estimated to be within the optimal range for adult eastern oysters (**Figure ES-4**). The mean larval oyster recruitment rate reported by the Fish and Wildlife Research Institute (FWRI) for August was 0.3 spat/shell at Rio, showing a decrease from the previous month. This decline reflects a pattern typically observed in the summer months, when recruitment rates decrease following late spring to early summer peak (**Figure ES-5**).

Caloosahatchee River Estuary

Over the past week, mean total inflow to the Caloosahatchee River Estuary was 3,086 cfs (**Figures ES-6 and ES-7**), and the previous 30-day mean inflow was 3,283 cfs. For comparison, the historical provisional mean inflows from the contributing areas are shown in **Figure ES-7**.

Over the past week, salinities remained below 1 at S-79, Val I-75, and Fort Myers, increased at Cape Coral and Shell Point, and decreased at Sanibel (**Table ES-2 and Figures ES-8 and ES-9**). The seven-day mean salinities (**Table ES-2**) were in the optimal range (0-10) for tape grass in the upper estuary. The seven-day mean salinity values were within the optimal range for adult eastern oysters at Sanibel and Shell Point and in the lower stressed range at Cape Coral (**Figure ES-10**). The mean larval oyster recruitment rates reported by the FWRI in August were 39.1 spat/shell at Iona Cove and 27.7 spat/shell at Bird Island, which is an increase from the previous month (**Figures ES-11 and ES-12**).

Surface salinity at Val I-75 was forecast for the next two weeks using an autoregression model (Qiu and Wan, 2013¹) coupled with a linear reservoir model for the tidal basin. Model scenarios included pulse releases at S-79 ranging from 450 to 2,000 cfs, with estimated tidal basin inflows of 526 cfs. Model results from all scenarios predict daily salinity to be 0.4 or lower and the 30-day moving average surface salinity to be 0.3 or lower at Val I-75 at the end of the two-week period (**Table ES-3 and Figure ES-13**). This keeps predicted salinities in the upper estuary within the optimal salinity range (0-10) for tape grass.

¹ Qiu, C., and Y. Wan. 2013. Time series modeling and prediction of salinity in the Caloosahatchee River Estuary. *Water Resources Research* 49:5804-5816.

Red Tide

The FWRI reported on September 5, 2025, that *Karenia brevis*, the Florida red tide dinoflagellate, was not observed in any samples collected within the District region.

Water Management Recommendations

Lake stage is in Zone D. Current climatological and hydrological conditions are normal. The LOSOM release guidance suggests up to 2,000 cfs release at S-79 to the Caloosahatchee River Estuary and no releases at S-80 to the St. Lucie Estuary.

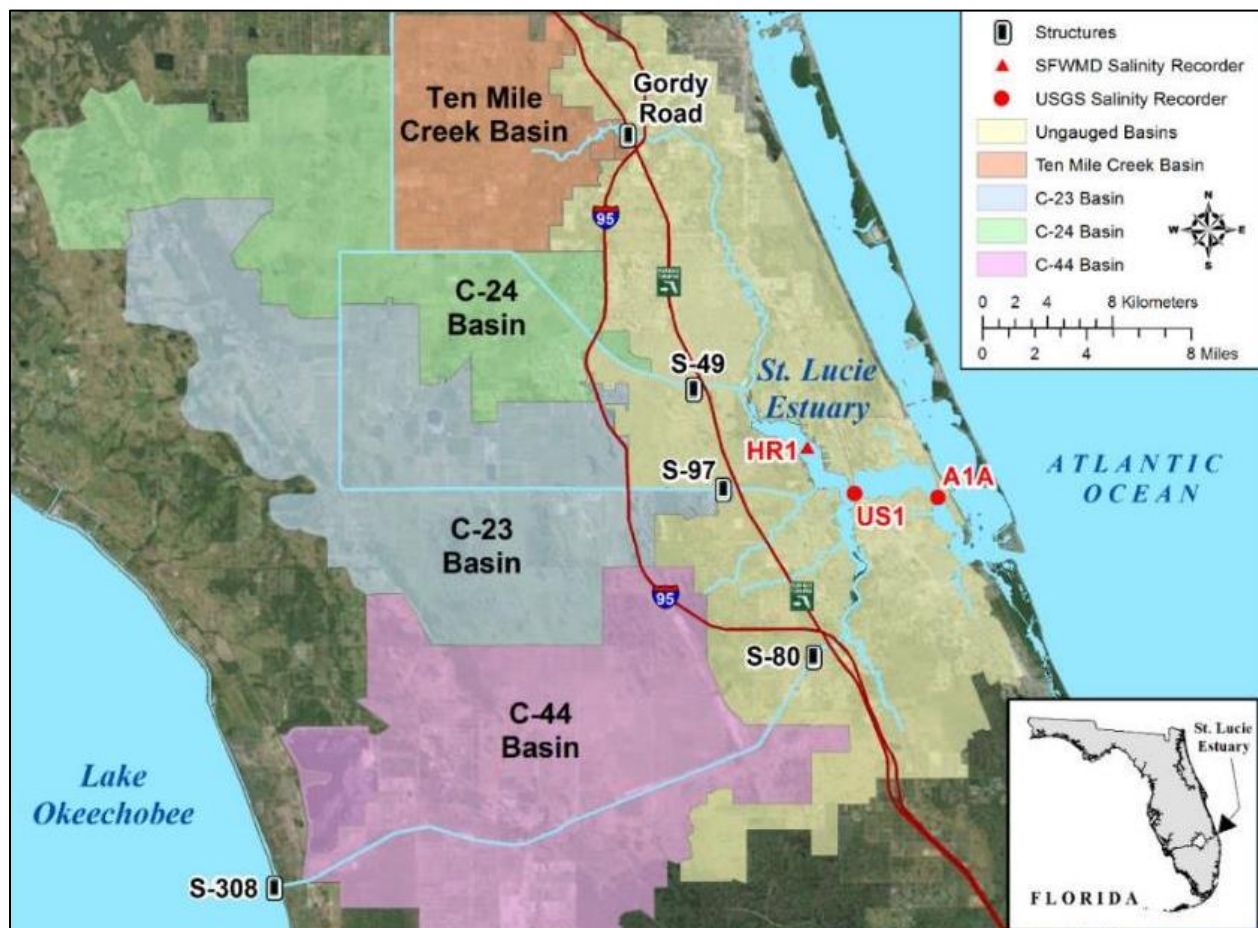


Figure ES-1. Basins, water control structures and salinity monitoring sites in the St. Lucie Estuary.

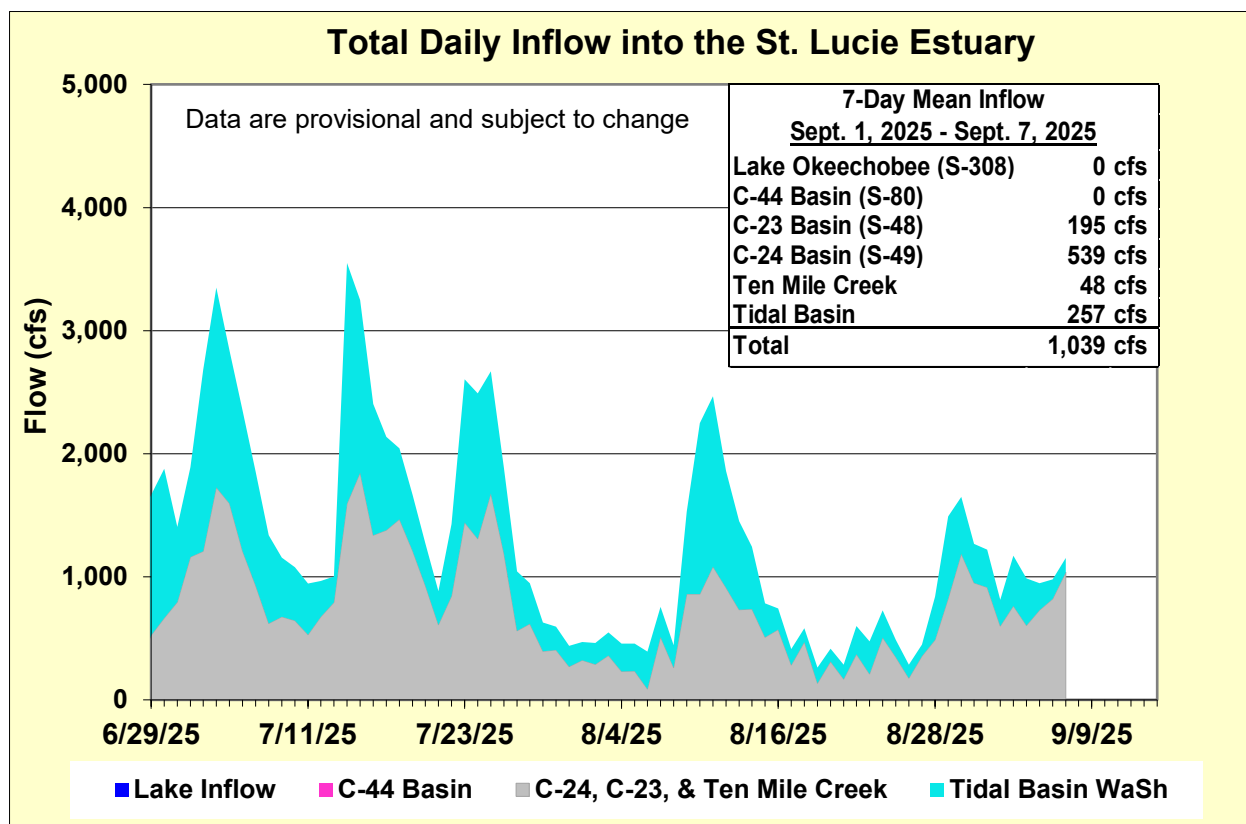


Figure ES-2. Total daily inflows from Lake Okeechobee and runoff from the C-44, C-23, C-24, Ten Mile Creek, and Tidal Basins into the St. Lucie Estuary.

Table ES-1. Seven-day mean salinity at oyster monitoring sites in the St. Lucie Estuary. Current means are in bold font; previous week's means are in parentheses. The envelope reflects the optimum salinity range for adult eastern oysters (*Crassostrea virginica*) in the estuary. Data are provisional.

Sampling Site	Surface	Bottom	Optimum Envelope
HR1 (North Fork)	12.8 (14.0)	19.7 (19.9)	10.0 – 25.0
US1 Bridge	17.4 (18.3)	20.7 (20.0)	10.0 – 25.0
A1A Bridge	24.3 (25.2)	28.3 (28.0)	10.0 – 25.0

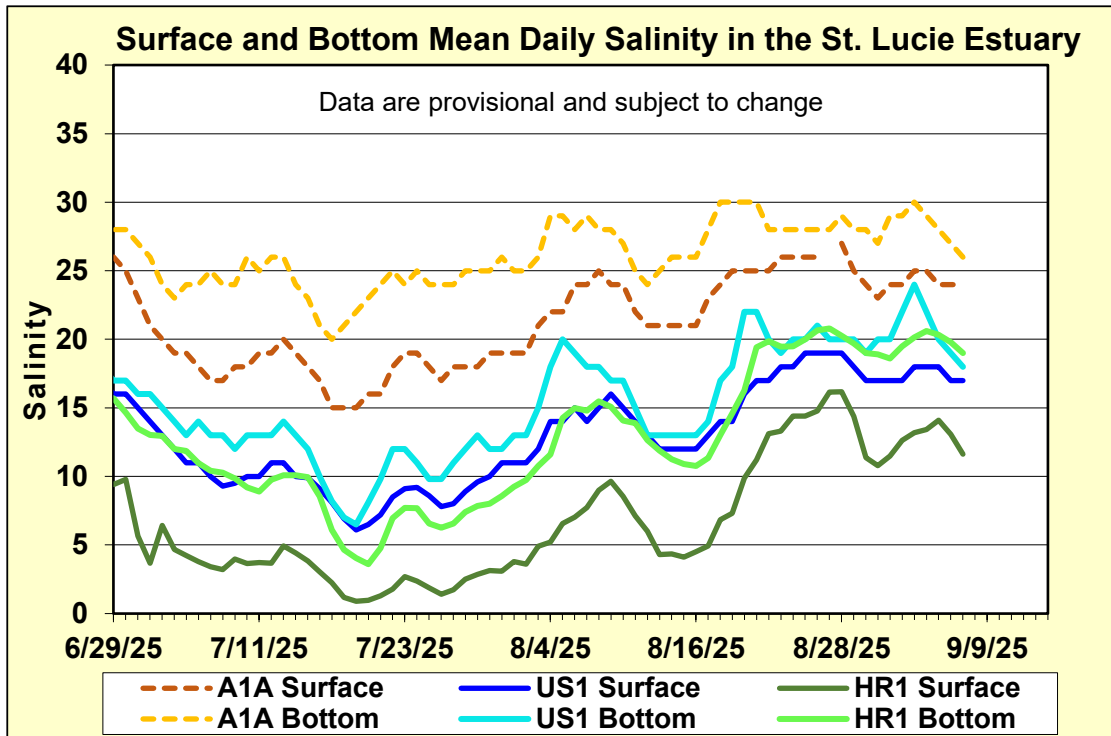


Figure ES-3. Mean daily salinity at the A1A, US1, and HR1 sites in the St. Lucie Estuary.

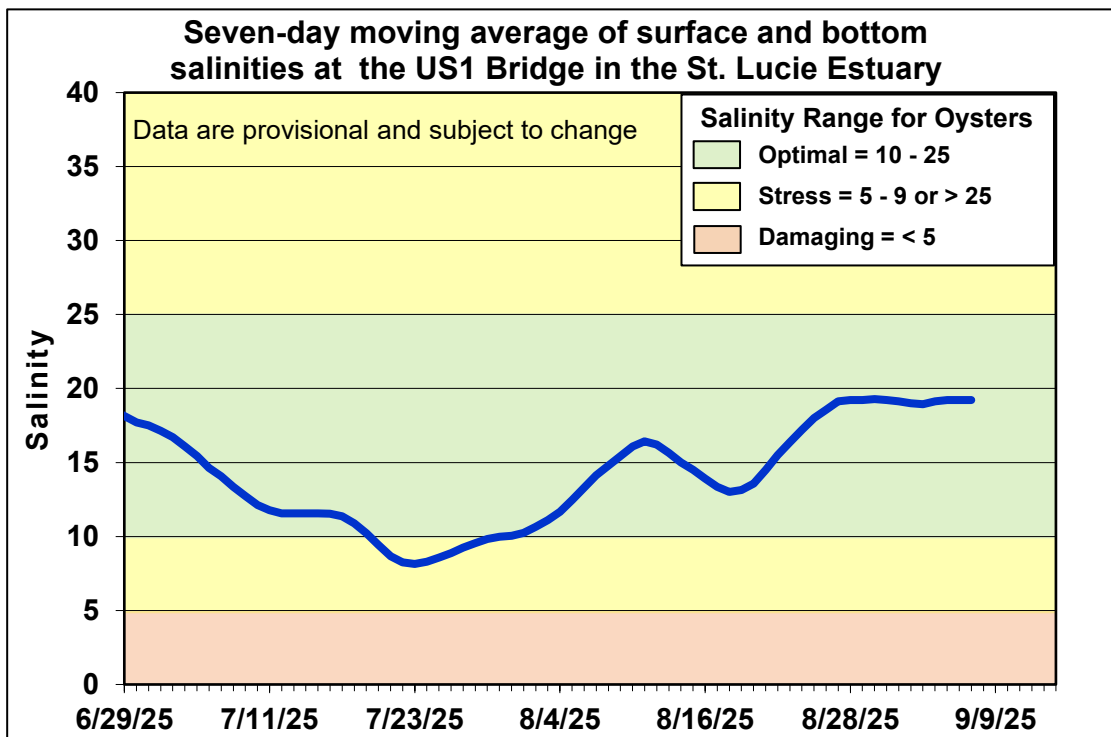


Figure ES-4. Seven-day moving average of the surface and bottom salinities at the US1 Bridge in the St. Lucie Estuary.

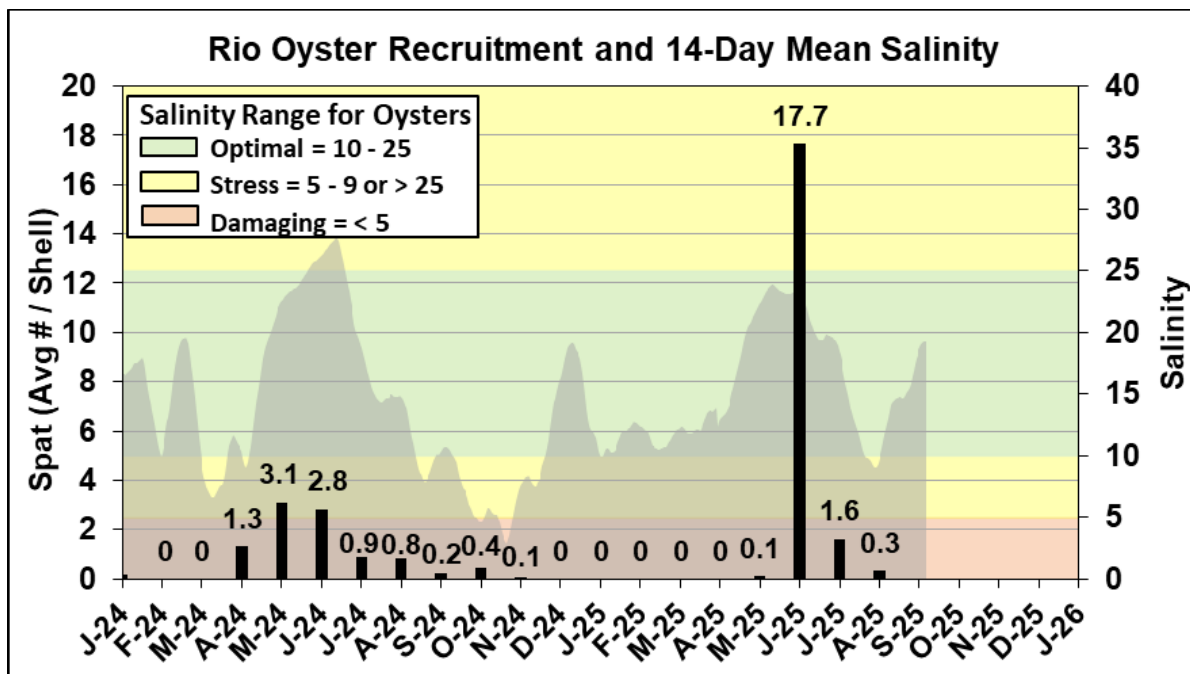


Figure ES-5. Mean oyster recruitment at the Rio oyster monitoring station and 14-day mean salinity at US1 Bridge.

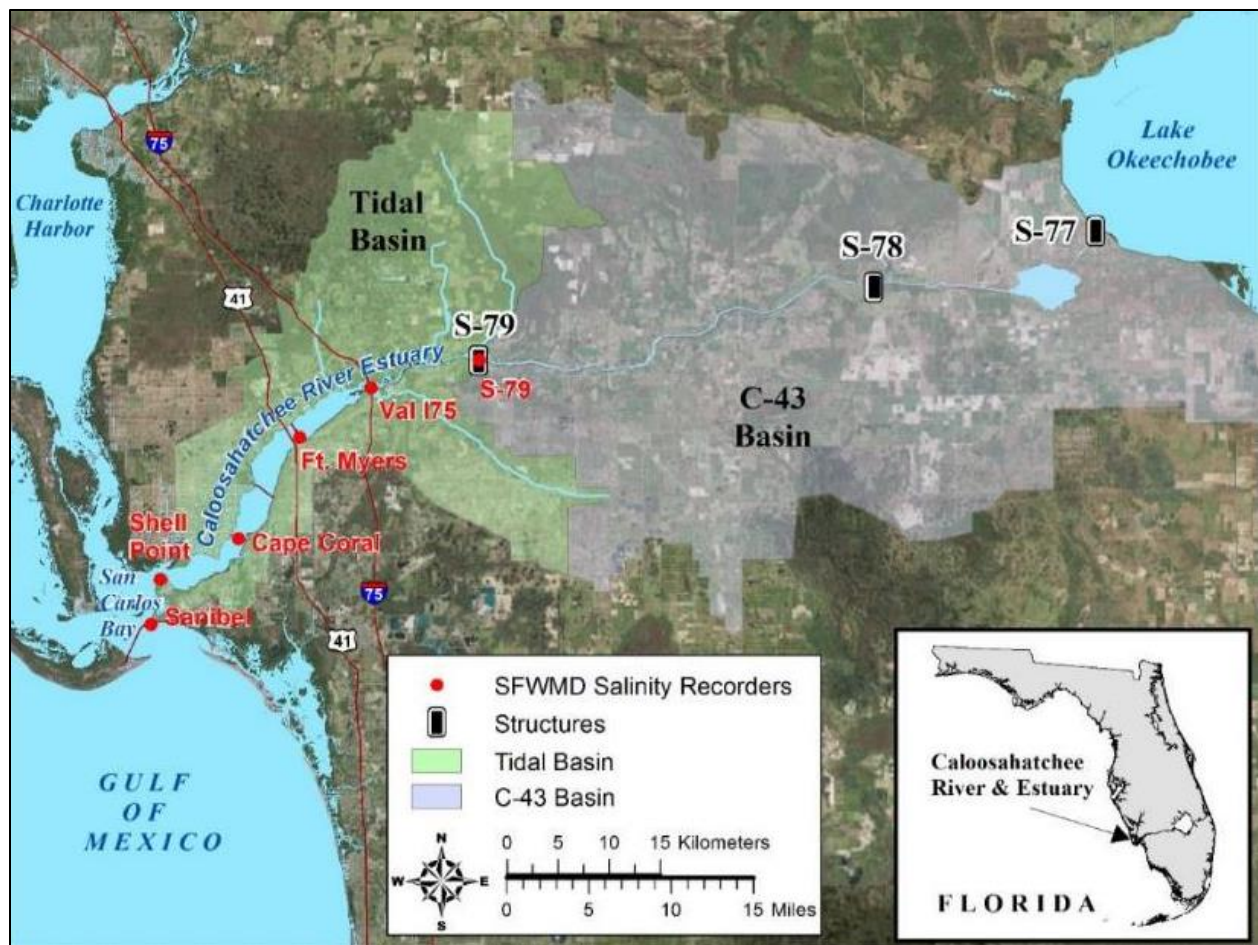


Figure ES-6. Basins, water control structures, and salinity monitoring sites in the Caloosahatchee River Estuary.

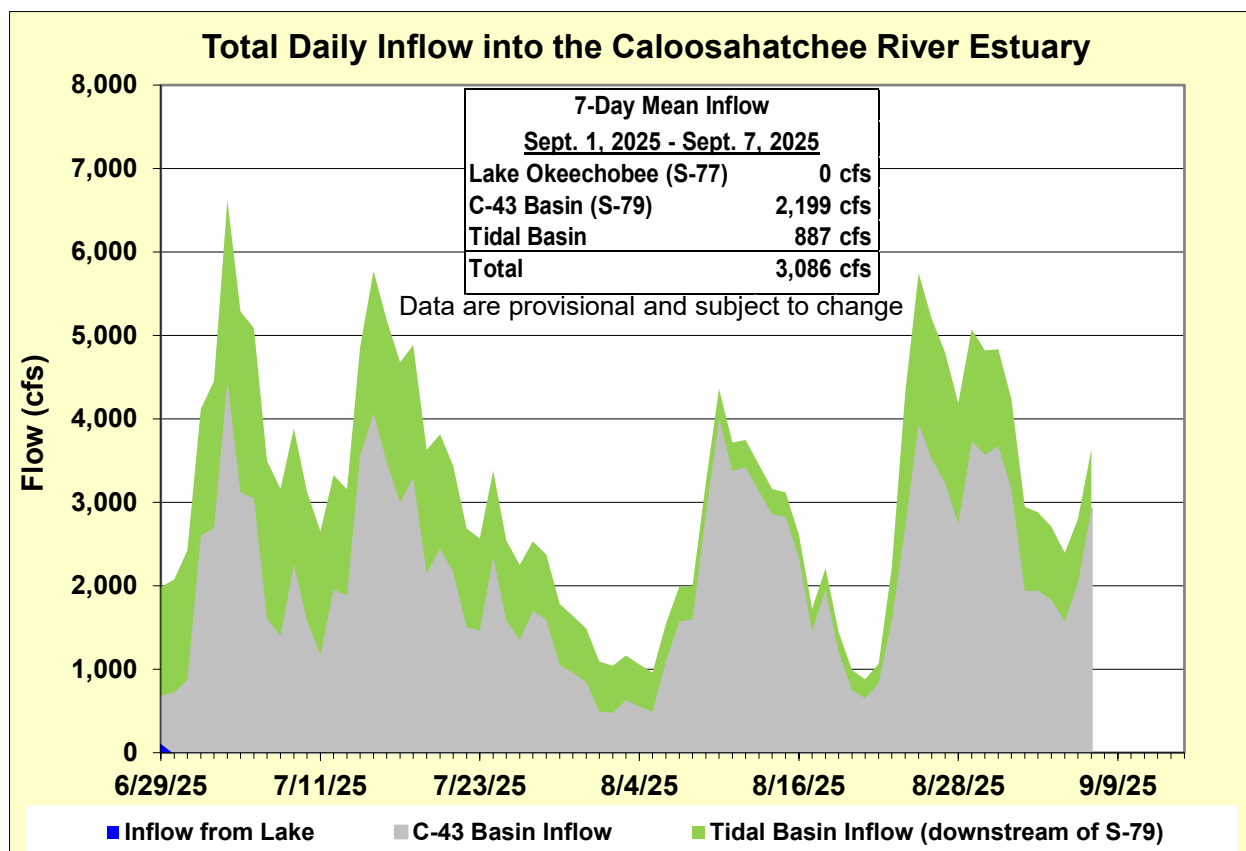


Figure ES-7. Total daily inflows from Lake Okeechobee, and runoff from the C-43 and Tidal basins into the Caloosahatchee River Estuary.

Table ES-2. Seven-day mean salinity at six monitoring sites in the Caloosahatchee River Estuary. Current means are in bold font; previous week's means are in parentheses. The envelope in the upper estuary sites is for the protection of tape grass and the envelope in the lower estuary is the optimum salinity range for adult eastern oysters (*Crassostrea virginica*). Data are provisional.

Sampling Site	Surface	Bottom	Optimum Envelope
S-79 (Franklin Lock)	0.2 (0.2)	0.2 (0.2)	0.0 – 10.0
Val I-75	0.2 (0.2)	0.2 (0.2)	0.0 – 10.0
Fort Myers Yacht Basin	0.5 (0.5)	0.5 (0.5)	0.0 – 10.0
Cape Coral	5.9 (5.5)	8.6 (6.5)	10.0 – 25.0
Shell Point	20.9 (18.5)	23.3 (20.7)	10.0 – 25.0
Sanibel	25.0 (25.2)	20.9 (26.1)	10.0 – 25.0

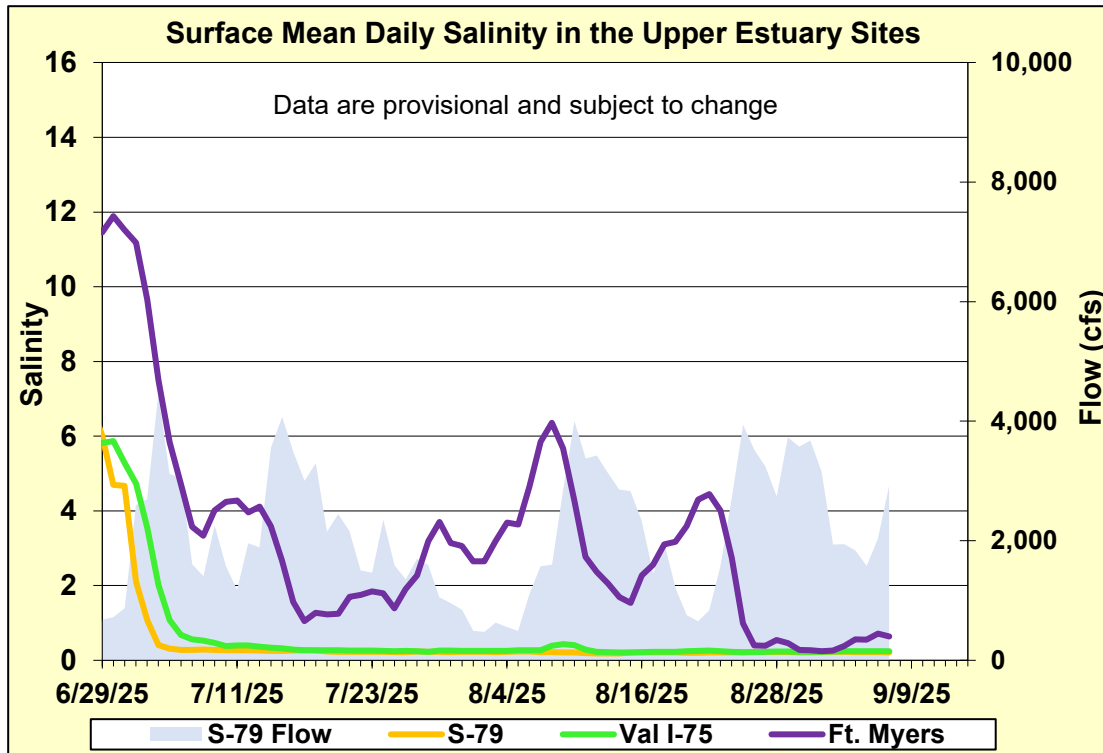


Figure ES-8. Mean daily salinity at upper Caloosahatchee River Estuary monitoring sites and mean daily flow at S-79.

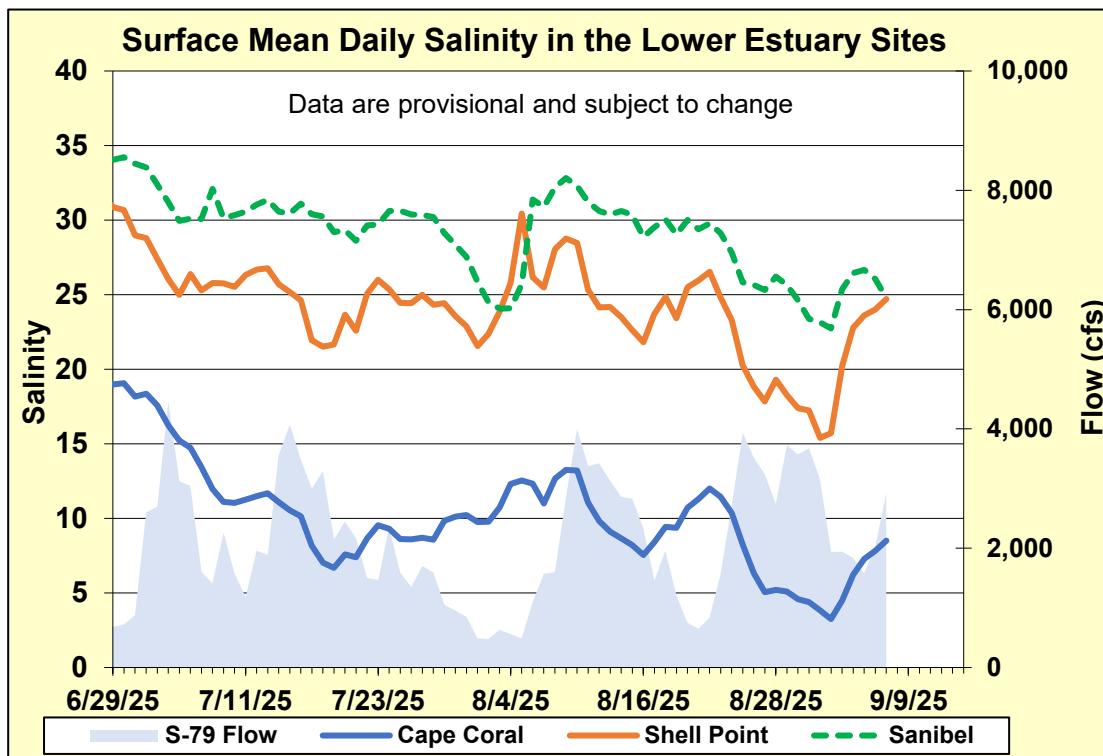


Figure ES-9. Mean daily surface salinity at lower Caloosahatchee River Estuary monitoring sites and mean daily flow at S-79.

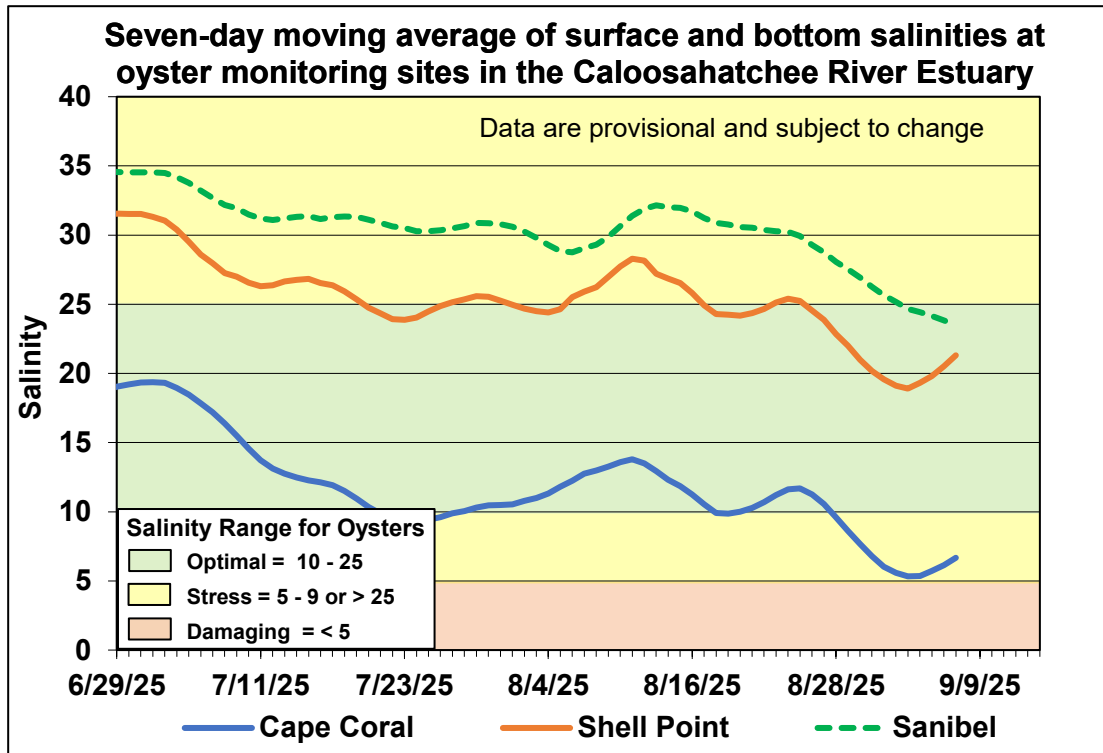


Figure ES-10. Seven-day moving average of surface and bottom salinities at Cape Coral, Shell Point, and Sanibel monitoring sites in the Caloosahatchee River Estuary.

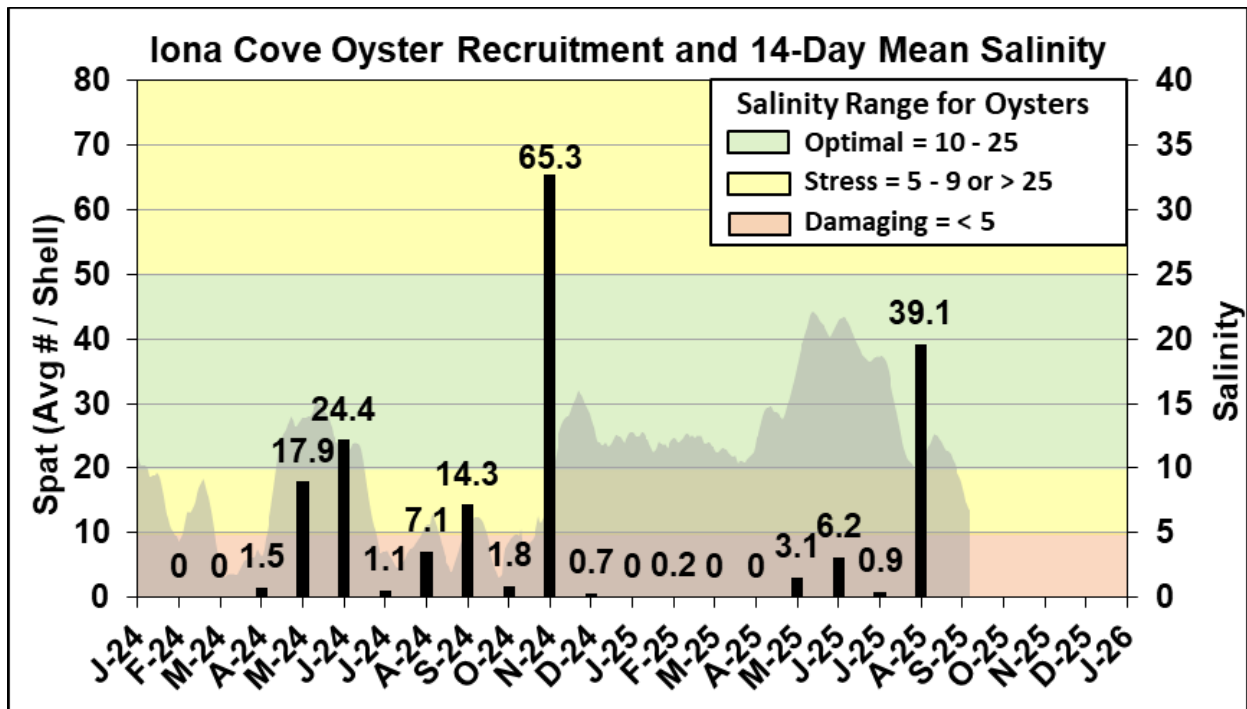


Figure ES-11. Mean oyster recruitment at the Iona Cove oyster monitoring station and 14-day mean salinity at Cape Coral.

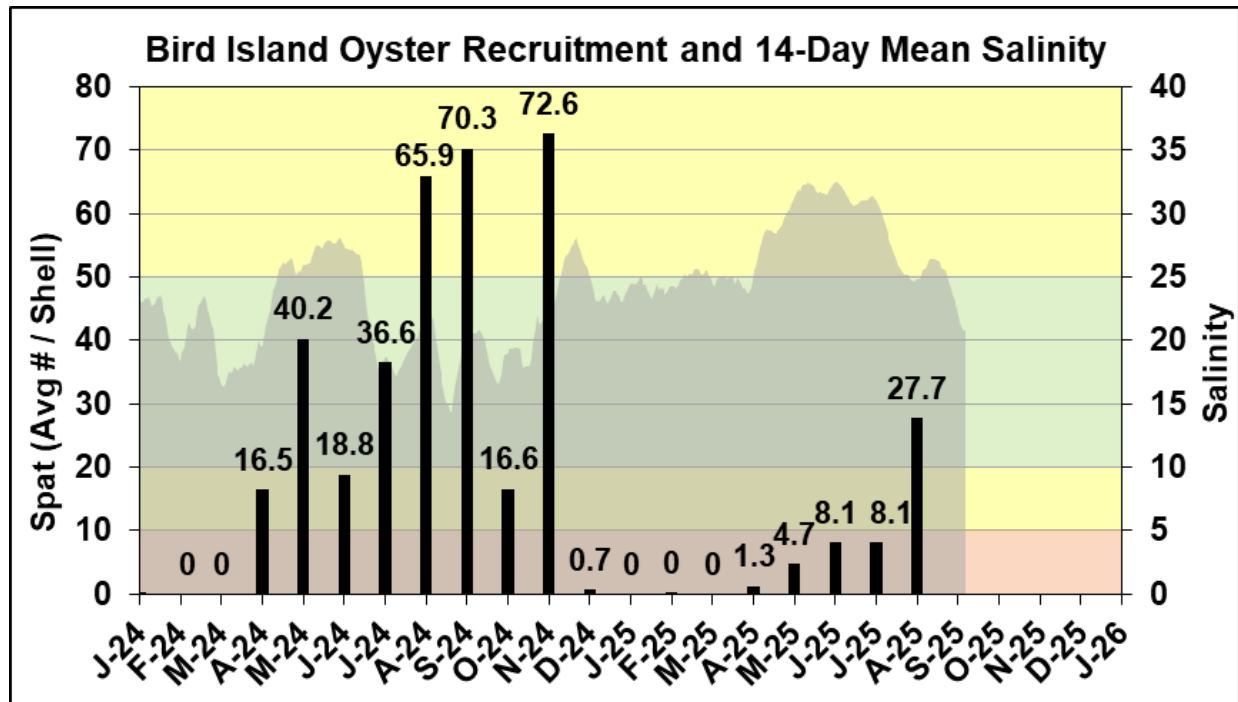


Figure ES-12. Mean oyster recruitment at the Bird Island oyster monitoring station and 14-day mean salinity at Shell Point.

Table ES-3. Predicted salinity at Val I-75 in the Caloosahatchee River Estuary at the end of the forecast period for various S-79 flow release scenarios.

Scenario	Simulated S-79 Flow (cfs)	Tidal Basin Runoff (cfs)	Daily Salinity	30-Day Mean Salinity
A	450	526	0.4	0.3
B	750	526	0.3	0.3
C	1000	526	0.3	0.3
D	1500	526	0.3	0.3
E	2000	526	0.3	0.3

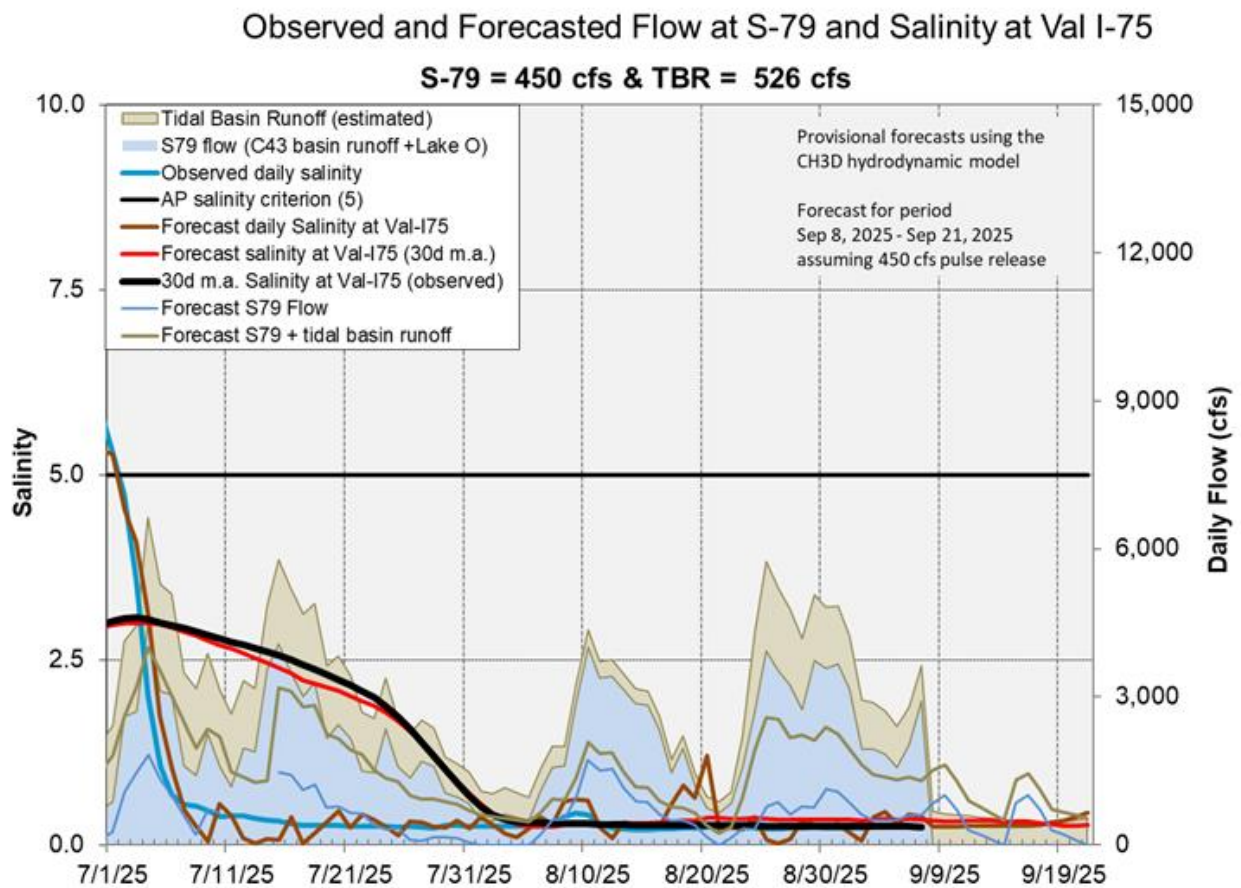


Figure ES-13. Surface salinity forecast at the Val I-75 site assuming a 450 cfs pulse release at S-79.

Stormwater Treatment Areas

STA-1E: STA-1E Central Flow-way is offline for construction activities. An operational restriction is in place in the Western Flow-way for post-construction vegetation grow-in. Online SAV treatment cells are below target stage, EAV cells are slightly above target stage. The 365-day PLR for the Western and Eastern Flow-way is below $1.0 \text{ g/m}^2/\text{year}$ (**Figure S-2**).

STA-1W: STA-1W Eastern Flow-way is online with restrictions for G-253 structure replacements. Treatment cells are at or slightly above target stage. Vegetation in the Western and Eastern Flow-ways is highly stressed. The 365-day PLRs for the Eastern and Northern Flow-ways are below $1.0 \text{ g/m}^2/\text{year}$. The 365-day PLR for the Western Flow-way is high (**Figure S-2**).

STA-2: Operational restrictions are in place in Flow-ways 2 and 4 for vegetation management activities and in Flow-way 3 for post-drawdown vegetation grow-in. Online treatment cells are above target stage. The 365-day PLRs for all Flow-ways are below $1.0 \text{ g/m}^2/\text{year}$ (**Figure S-3**).

STA-3/4: An operational restriction is in place in the Eastern Flow-way for post-drawdown vegetation grow-in. Treatment cells are above target stage. Vegetation in the Central Flow-way is highly stressed. The 365-day PLR for the Eastern, Central, and Western Flow-ways are below $1.0 \text{ g/m}^2/\text{year}$ (**Figure S-3**).

STA-5/6: Most treatment cells are above target stage. All treatment cells have highly stressed or stressed vegetation conditions. The 365-day PLRs for Flow-ways 1, 2, 3, 5, 6, 7, and 8 are below $1.0 \text{ g/m}^2/\text{year}$, and the 365-day PLRs for Flow-way 4 is high. (**Figure S-4**).

For definitions on STA operational language see glossary following figures

Everglades Stormwater Treatment Areas - STAs

- Total WY2026 inflows to STAs (5/1/2025 to 9/7/2025): ~315,200 ac-ft
- Lake Okeechobee releases to FEBs/STAs
 - 9/1/2025 to 9/7/2025: 100 ac-ft
 - WY2026: ~ 32,000 ac-ft
- Extensive vegetation management activities underway to address stressed and highly stressed vegetation in EAV cells
- Most treatment cells are near or above target water depth

Estimated Inflow and Outflow Volumes

Sept. 1 – Sept. 7, 2025

Includes preliminary data

	Total Inflow (acre-feet)	Total Outflow (acre-feet)
STA-1E	2,100	170
STA-1W	740	100
STA-2	5,800	3,300
STA-3/4	9,100	7,900
STA-5/6	5,700	4,100

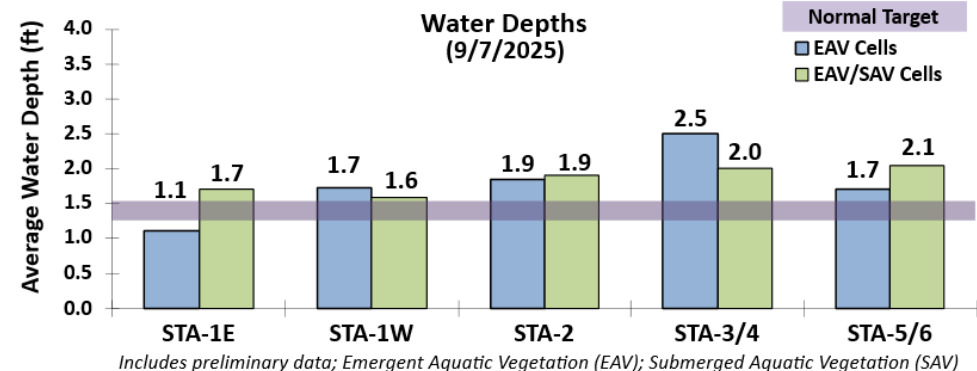


Figure S-1. STA depths and flow volumes

0 CFS Lake release capacity in Eastern Flow Path:
9/8/2025 to 9/14/2025
Subject to change weekly as wet season progresses

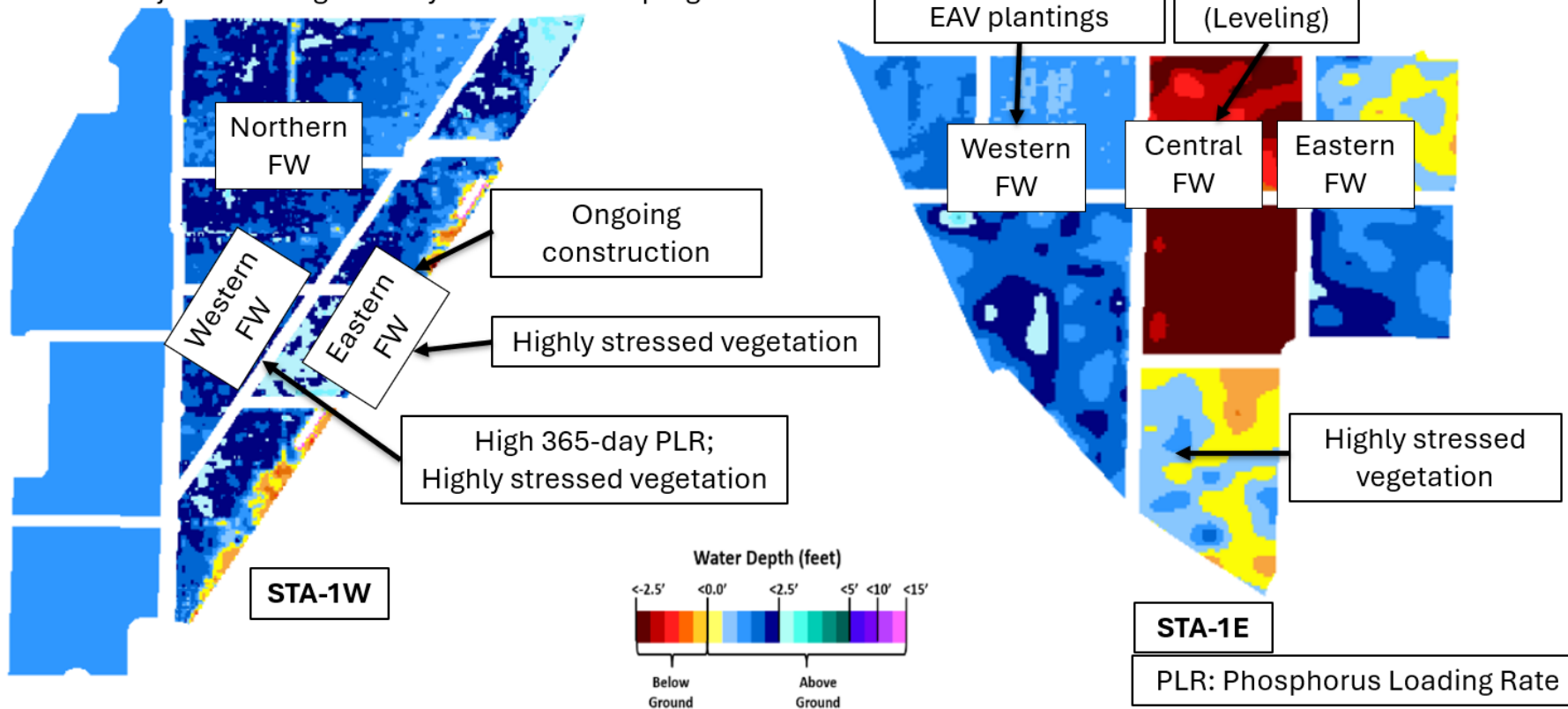


Figure S-2. Eastern Flow Path Weekly Status Report

300 CFS Lake release capacity in Central Flow Path:
9/8/2025 to 9/14/2025

- 200 CFS in STA-34
- 100 CFS in STA-2
- Subject to change weekly as wet season progresses

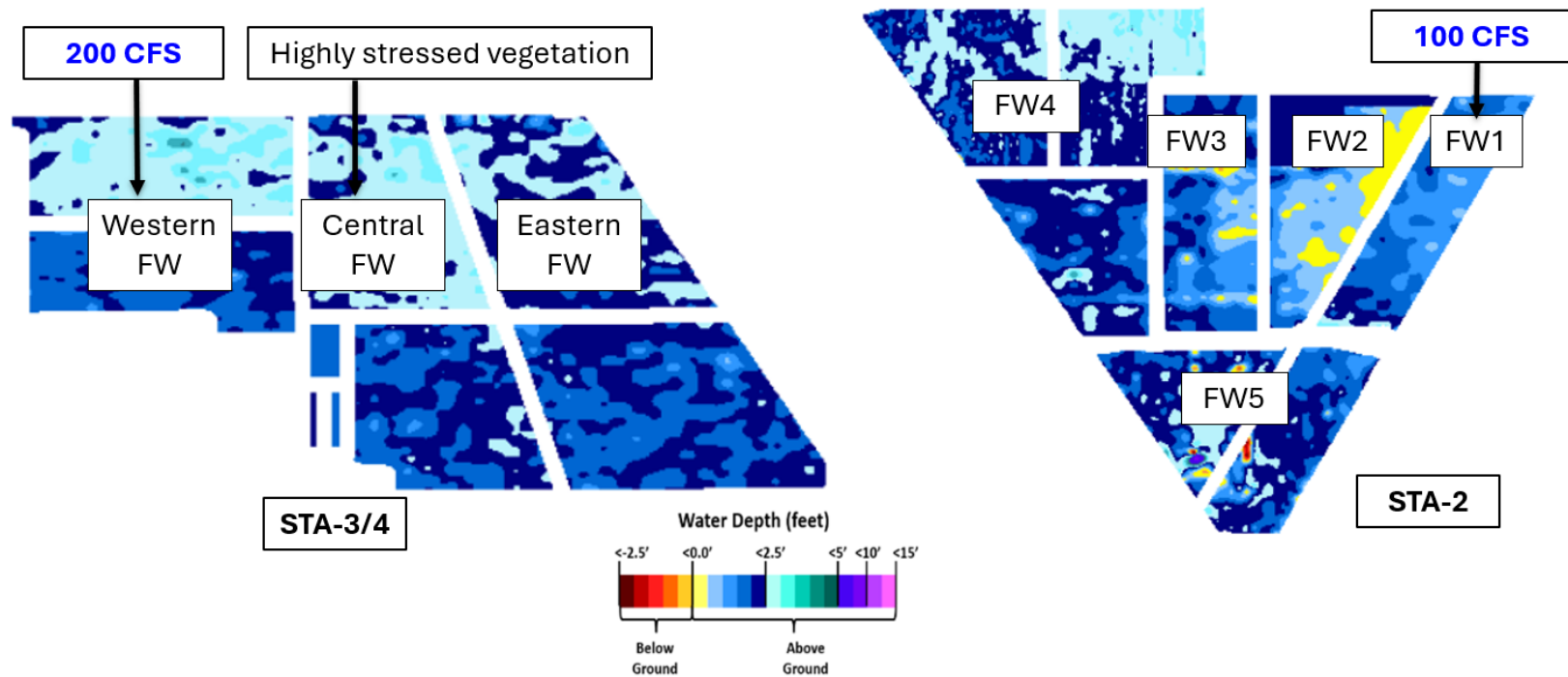


Figure S-3. Central Flow Path Weekly Status Report

0 CFS Lake release capacity in Western Flow Path:
9/8/2025 to 9/14/2025

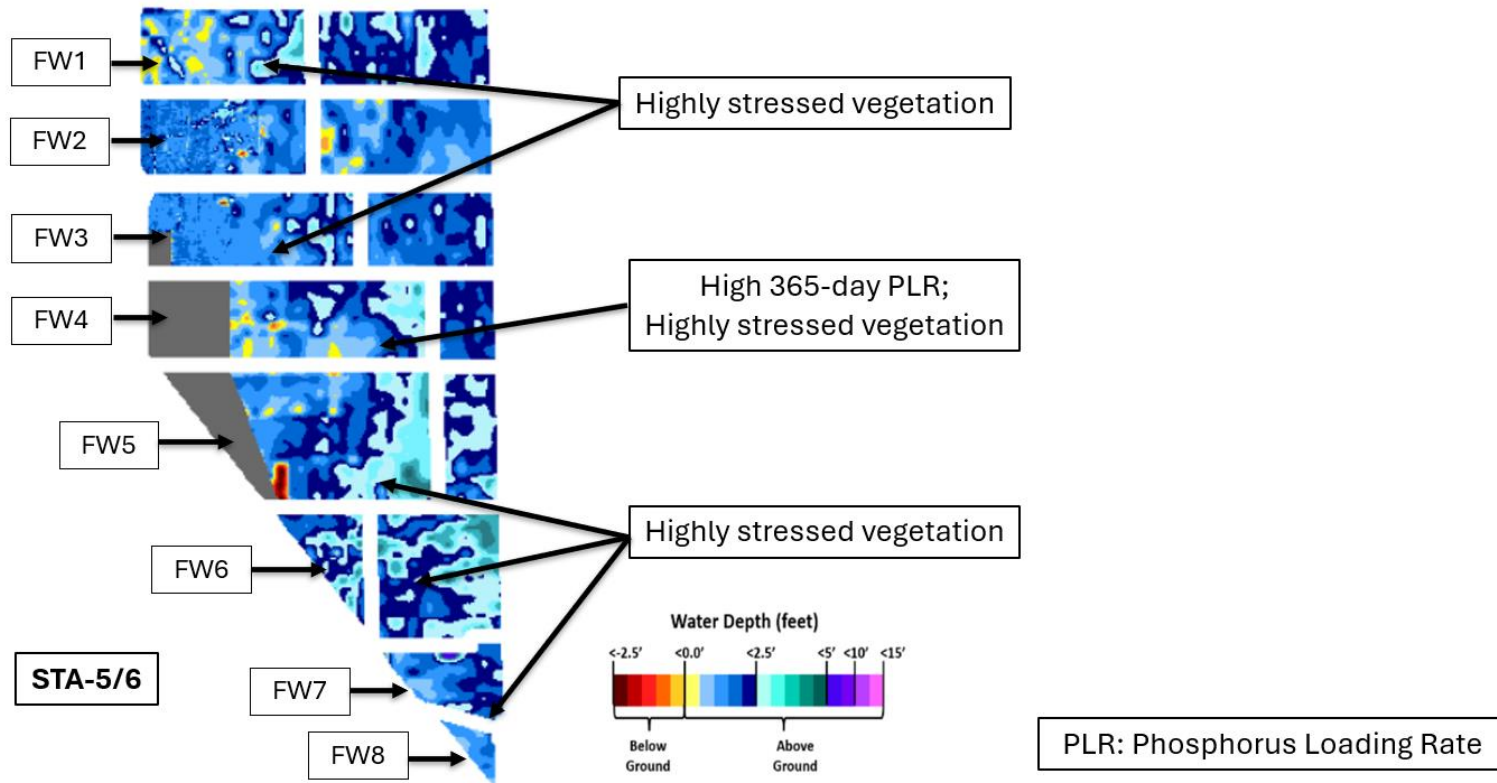


Figure S-4. Western Flow Path Weekly Status Report

Basic Concepts and Definitions for STA Weekly Status Report

- **Inflow:** Sum of flow volume at all inflow structures to an STA.
- **Lake Inflow:** Portion of the STA total inflow volume that originates from Lake Okeechobee.
- **Outflow:** Sum of flow volume at outflow structures from an STA.
- **Total Phosphorus (TP):** Total mass of phosphorus in all its forms; including particulate, dissolved, etc.
- **Inflow Concentration:** TP concentration is the mass of TP in micrograms per liter of water, $\mu\text{g/L}$ or ppb. Inflow concentration refers to the flow-weighted mean TP from all inflow structures over a period of time.
- **Outflow Concentration:** The flow-weighted mean TP from all outflow structures over a period of time. The outflow concentration represents the reduction of inflow TP achieved by STA treatment of the inflow water.
- **WQBEL:** The STA outflow concentration that is required upon completion of the Restoration Strategies projects by December 2025. The outflow concentration shall not exceed 13 ppb as an annual flow weighted mean in more than 3 out of 5 water years on a rolling basis and shall not exceed 19 ppb as an annual flow weighted in any water year.
- **Flow-Way (FW):** One or more treatment cells connected in series. Cells typically have emergent aquatic vegetation (EAV) in the front portion of the flow-way followed by a mix of EAV and submerged aquatic vegetation (SAV)
- **Vegetation Status:** Healthy means the vegetation condition is good and will allow the STA to perform as designed. Stressed means the vegetation is showing signs of poor health, such as browning or areas of vegetation die-off, or the cell contains undesirable vegetation such as floating exotic vegetation requiring treatment. The TP reduction capability of the STA is affected when the vegetation condition is poor.
- **Phosphorus Loading Rate (PLR):** Mass of inflow TP in grams, divided by total treatment area of STA in square meters, per year. In general, a 365-day value of less than 1.0 is needed for an STA to perform optimally. A PLR of 2.0 is considered very high and a PLR of 3.0 is considered extremely high. The TP reduction capability of the STA is affected when the PLR is high, very high and extremely high.
- **Online:** Online status means the FW can receive and treat inflow.
- **Online with Restriction:** The FW can receive and treat inflow, but the amount of flow or water level may be limited temporarily. For example, a vegetation rehabilitation effort may require reduced flows through an area while the new plants are establishing, or nesting by protected species may require a certain water level not to be exceeded.
- **Offline:** The FW is unable to receive and treat inflow due to repairs, construction, or other prohibitive reasons.
- **Depth:** Difference between the average surface water level in a cell and the average ground elevation in that cell. Target depths, or depths between flow events, are between 1.25 ft to 1.5 ft. As depth approaches or drops below zero, an increasing percentage of the cell is considered dry and STA conditions deteriorate. An increase in depth above target depth is expected with increasing flow. However, as depth increases much above the target depth and is sustained over a period of time, it can be detrimental to vegetation health and overall STA treatment performance.
- **Note:** The data provided in this summary report were developed using a combination of provisional and quality-assured flow and water quality data. In some cases, best professional judgment was used to estimate missing data and revise questionable data. Values provided are not considered final but are appropriate for use in STA operational decision-making.

Everglades

Water Conservation Area Regulation Schedules

WCA-1: Stage at the 3-gauge average increased over the last week, now falling in the middle of the Zone A1 and Zone A2 envelope and was 0.75 feet below the A1 Zone regulation line on Sunday, September 7, 2025. WCA-2A: Stages continued to rise last week at the 2-17 gauge and remained above the A1 Zone regulation line by 0.82 feet on Sunday. WCA-3A: The 3-gauge average remains in Zone B but continued to ascend slightly last week. On Sunday, stages were 0.84 feet below the Zone A regulation line. WCA-3A North: Stage at Gauge 62 (NW corner) increased last week but remains below the Upper Schedule regulation line. On Sunday, stage remained at 0.93 feet below that line. See **Figures EV-1 through EV-4**.

Water Depths

The SFWDAT model output for September 7, 2025, illustrates more of a rewetting of WCA-1, but parts of the northern area remain just slightly above ground level. WCA-2A depths have risen quickly over the last month toward the average for this time of year in the southern area but remain relatively dry in the northern area. Depths increased but still remain relatively low in northern and central WCA-3A, limiting prey production in these key areas for wading bird foraging. Big Cypress Basin depths have risen over the last two months, but dry conditions remain near Tamiami Trail. Hydrologic connectivity has improved compared to one month ago in Shark River Slough, Taylor Slough, and to the west in Lostman's Slough, although Lostman's Slough is still relatively low for this time of year. Conditions throughout WCA-1, WCA-3A, WCA-3B, and Big Cypress remain very dry relative to average conditions this time of year. Southern WCA-2A and ENP are returning to near average depth across the basins. See **Figures EV-5 through EV-6**.

Taylor Slough and Florida Bay

All stages increased across Taylor Slough since August 28th, and the average change was an increase of 0.22 feet. Changes ranged from +0.08 feet at P37 in the southern slough to +0.44 feet at Taylor Slough Bridge (TSB) in the northern slough (**Figure EV-7 and Figure EV-8**). Taylor Slough water levels are above the recent average (WY1993-2016) for this time of year by 3.0 inches compared to before the Florida Bay Initiative (starting in 2017), an increase of 2.2 inches relative to August 28th. The Craighead Pond (CP) and TSB stages remain below the estimated average for circa 1900 by 0.56 and 1.22 feet, respectively.

Average Florida Bay salinity was 31.8, a decrease of 3.9 from August 28th. Salinity changes ranged from -9.4 at Garfield Bight (GB) in the western nearshore region to -0.6 at Little Madeira Bay (LM) in the eastern nearshore region (**Figure EV-7**). Salinity is above the estimated historical average (circa 1900) and near the WY2001-2016 Interquartile Range (IQR) 75th percentile in all three regions but is no longer at the hypersalinity threshold (**Figure EV-9**). Average Florida Bay salinity remains above its recent average (WY1993-2016) for this time of year by 4.1, a decrease of 3.3 relative to August 28th.

Salinity at the Taylor River (TR) station in the mangrove zone (tracked for the Florida Bay MFL) was 24.4, a decrease of 4.1 from August 28th (**Figure EV-10**). The 365-day moving

sum of flow from the five major creeks (McCormick Creek, Taylor River, Mud Creek, Trout Creek, West Highway Creek) was 191,696 acre-feet, a decrease of 519 acre-feet from August 28th (**Figure EV-10**).

Average rainfall across Taylor Slough and Florida Bay was approximately 3.51 inches over the past week, based on the 18 gauges used for this report. Rainfall ranged from 1.44 inches at P37 in the southern slough to 4.65 inches at TSB in the northern slough (**Figure EV-11**). Wind directions and speeds in Florida Bay ranged from 0.2 mph NE on August 29th to 21.4 mph W on September 4th (**Figure EV-11**).

Average daily flow from the five major creeks totaled 699 acre-feet, with net positive flows since August 28th. Total daily creek flow ranged from –799 acre-feet on September 5th to 1,923 acre-feet on September 2nd (**Figure EV-12**). Average daily flow was 3,810 acre-feet below estimated historical levels (circa 1900). Average daily flow from Alligator creek was 32 acre-feet, with net positive flows since August 28th (**Figure EV-12**).

Implications for water management.

The EPA continues to experience unseasonably dry conditions especially in the northern portions of the WCAs as highlighted by recent wildfires in northern WCA-2A and WCA-3A. Rainfall over the past week has helped increase water depths throughout the EPA, but without continued increases this wet season, the populations of fish in the central Everglades, already heavily depleted by the extended dry down in the last dry season, are unlikely to recover for another year or even longer. This has the potential to further extend the poor wading bird nesting into the 2026 and 2027 nesting seasons. With the potential for another La Niña dry season, conserving water within the WCAs may prove ecologically prudent. Florida Bay salinity now falls below the hypersalinity thresholds in all regions, above which harmful ecological conditions can develop. However, all regions are still at relatively high salinities for this time of year. Florida Bay will benefit from freshwater input to the system down Taylor Slough and direct rainfall. Individual regional recommendations can be found in **Table EV-2**.

Table EV-2. Previous week’s rainfall and water depth changes in Everglades basins.

Everglades Region	Rainfall (inches)	Stage change (feet)
WCA-1	2.62	+0.31
WCA-2A	2.72	+0.08
WCA-2B	0.57	+0.01
WCA-3A	1.81	+0.02
WCA-3B	3.54	+0.15
ENP	1.99	–0.03

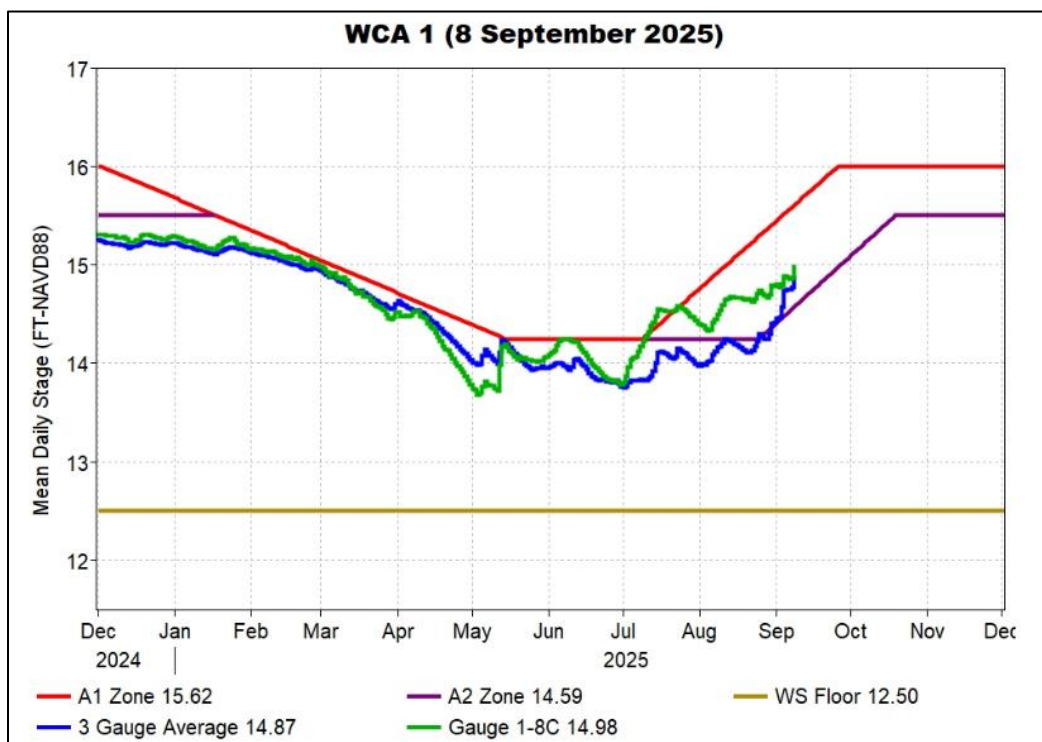


Figure EV-1. WCA-1 stage hydrographs and regulation schedule.

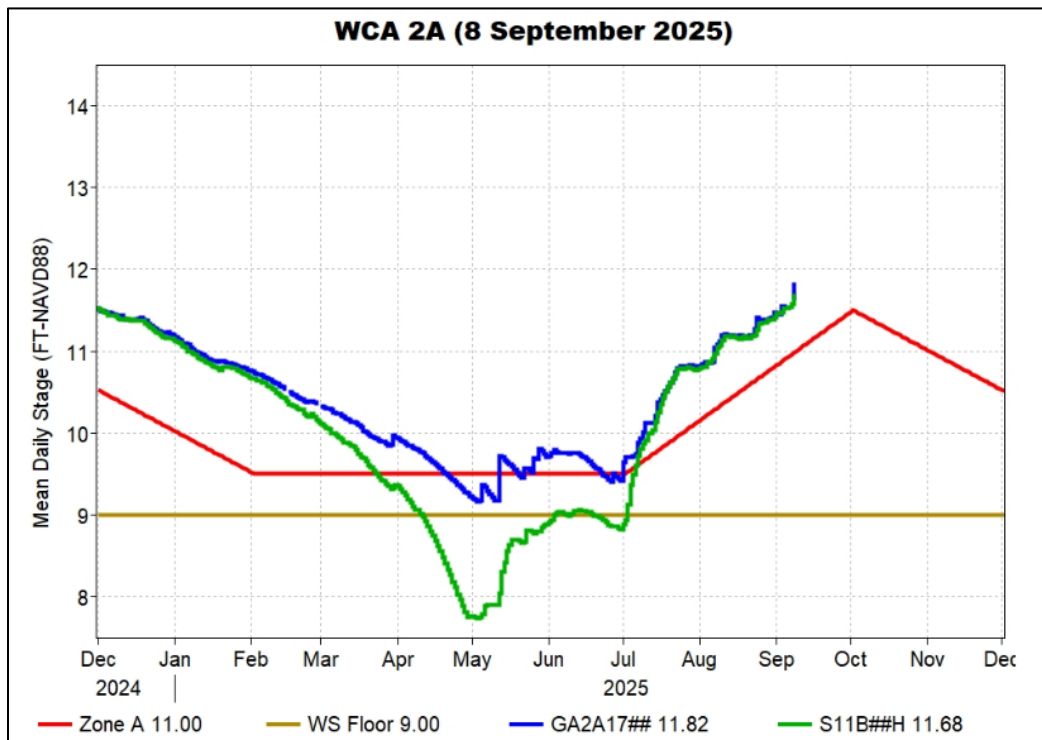


Figure EV-2. WCA-2A stage hydrographs and regulation schedule.

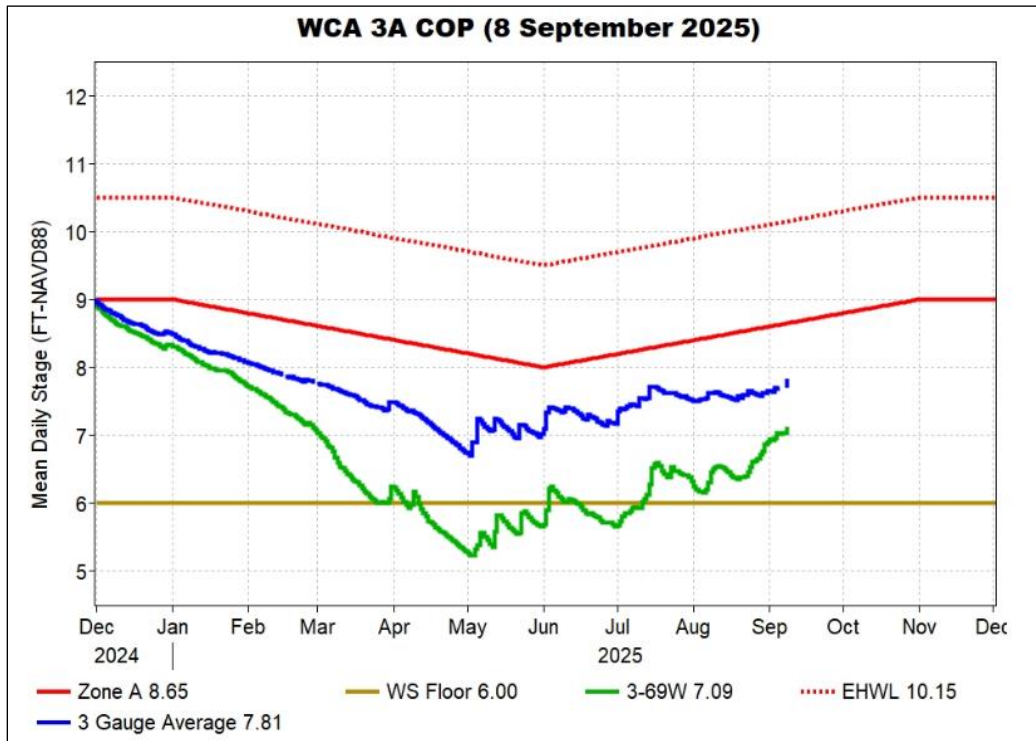


Figure EV-3. WCA-3A stage hydrographs (three-gauge average, 3-69W) and regulation schedule.

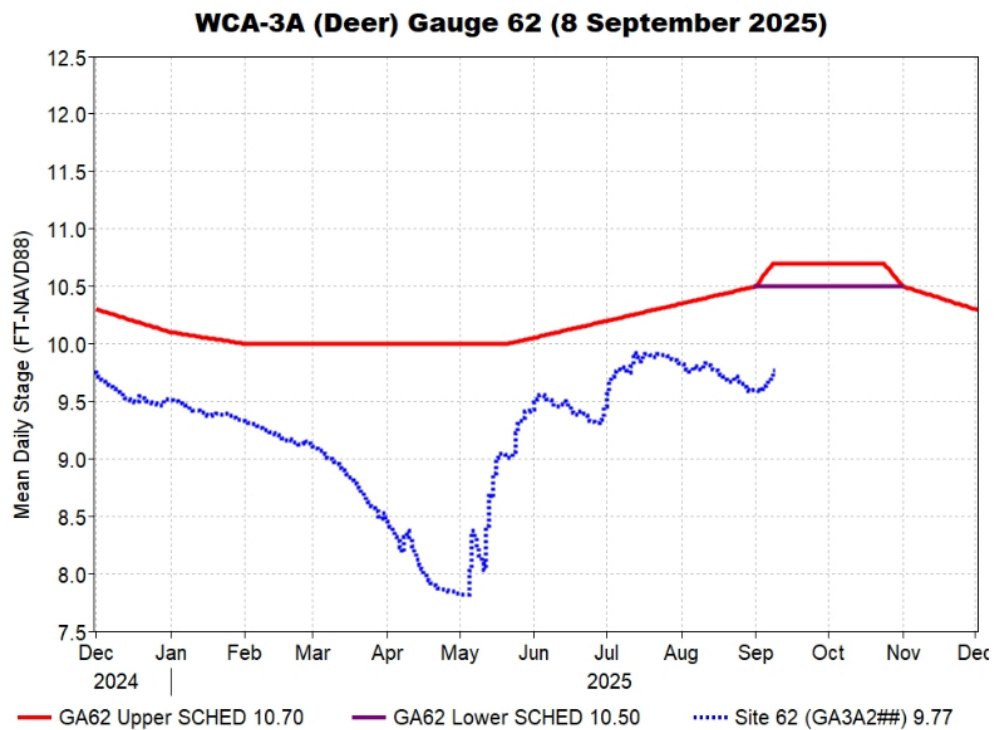


Figure EV-4. WCA-3A stage hydrograph (Deer gauge; Site 62) and GA62 regulation schedule.

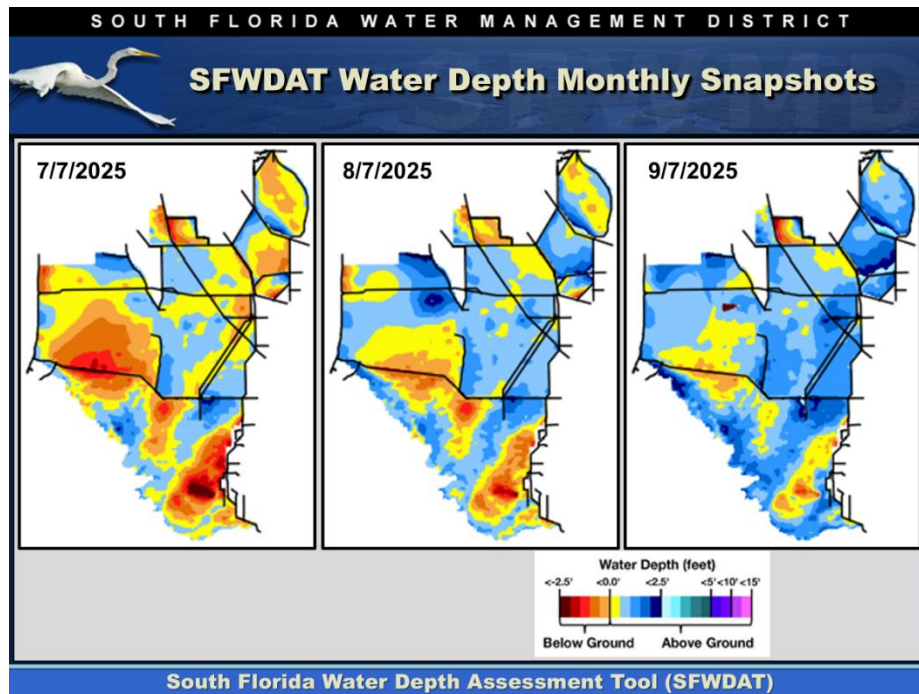


Figure EV-5. Everglades water depths from two months ago (left), one month ago (center) and present (right), based on SFWDAT.

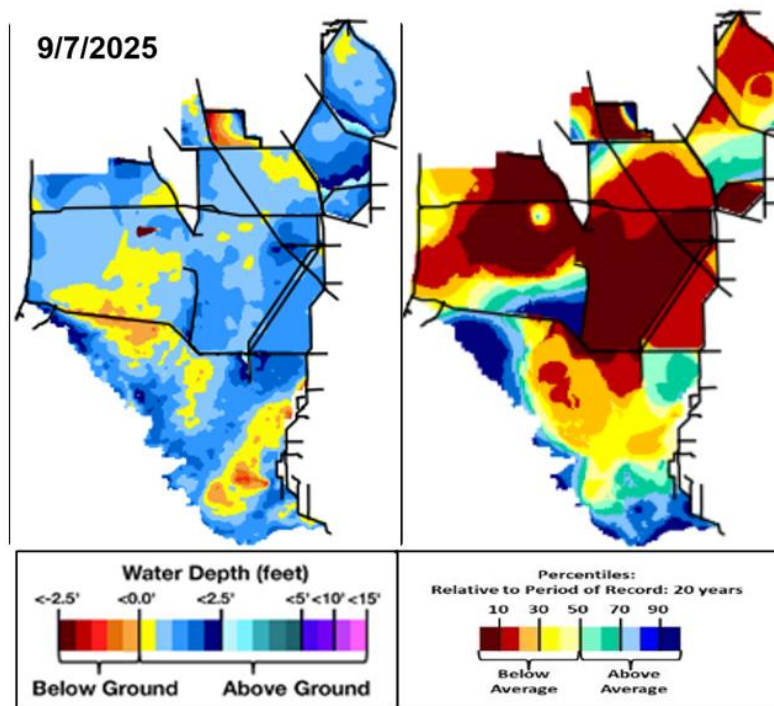


Figure EV-6. Present water depths (September 7, 2025) compared to the day of year relative to average (percentile) over the previous 20 years.

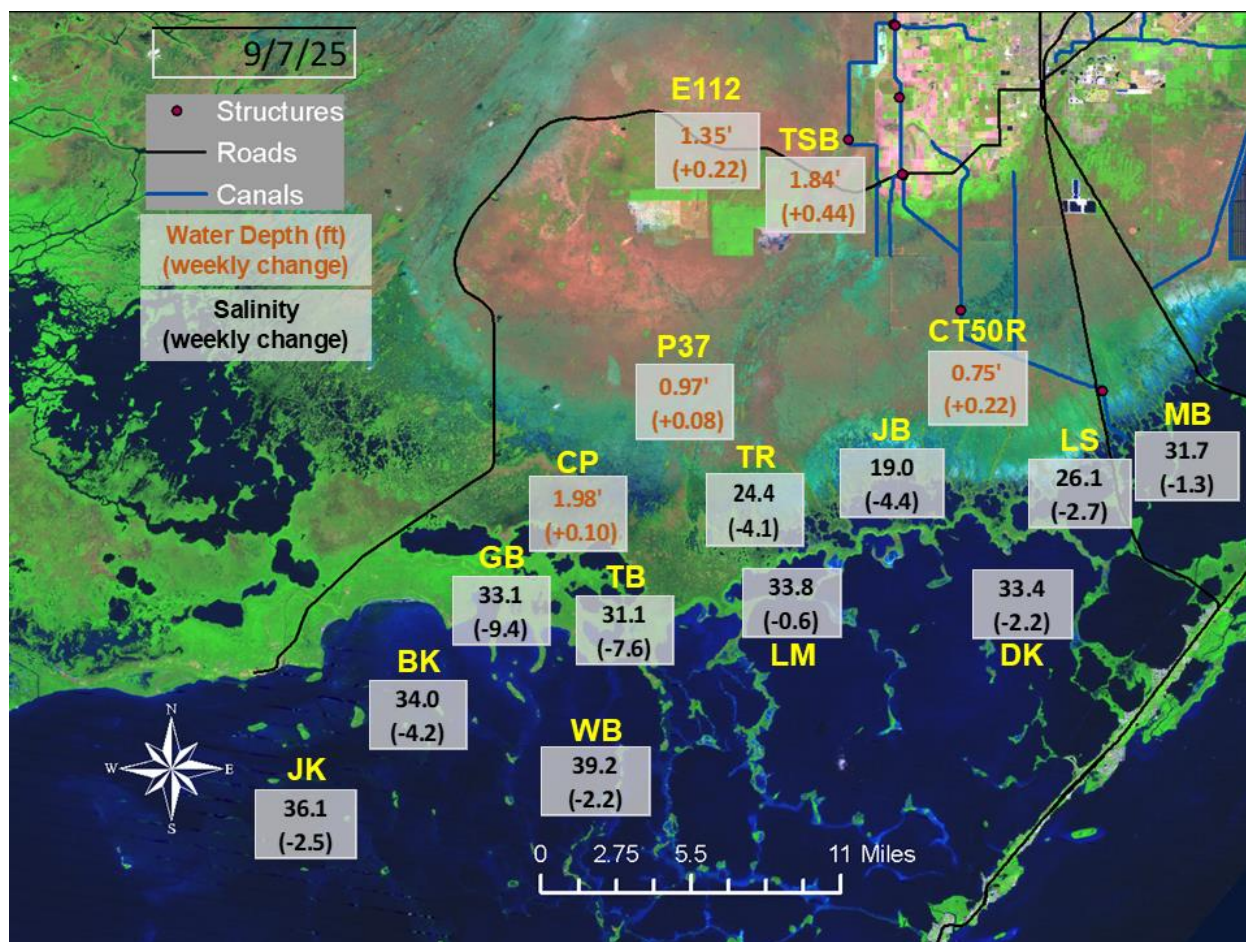


Figure EV-7. Taylor Slough water depths and Florida Bay salinities with changes since August 24th.

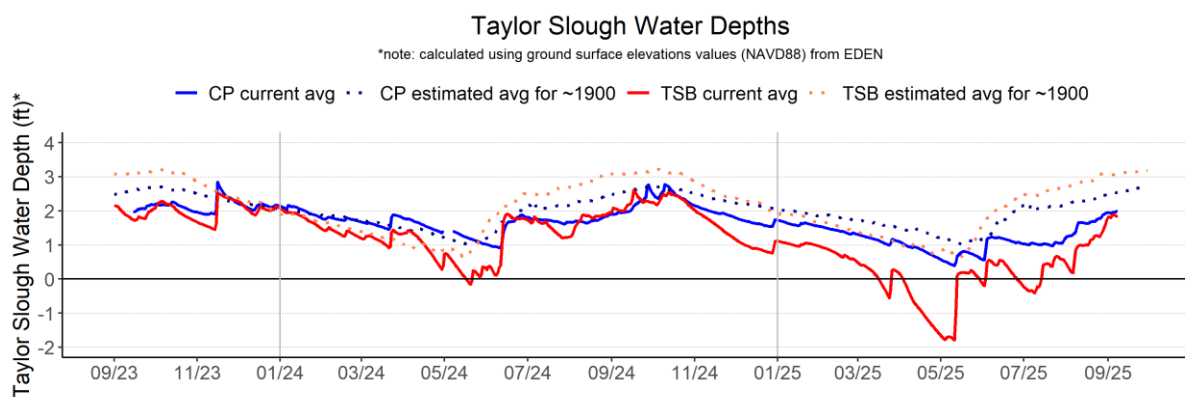


Figure EV-8. Taylor Slough water depth time series for Taylor Slough Bridge (TSB; northern slough) and Craighead Pond (CP; southern slough).

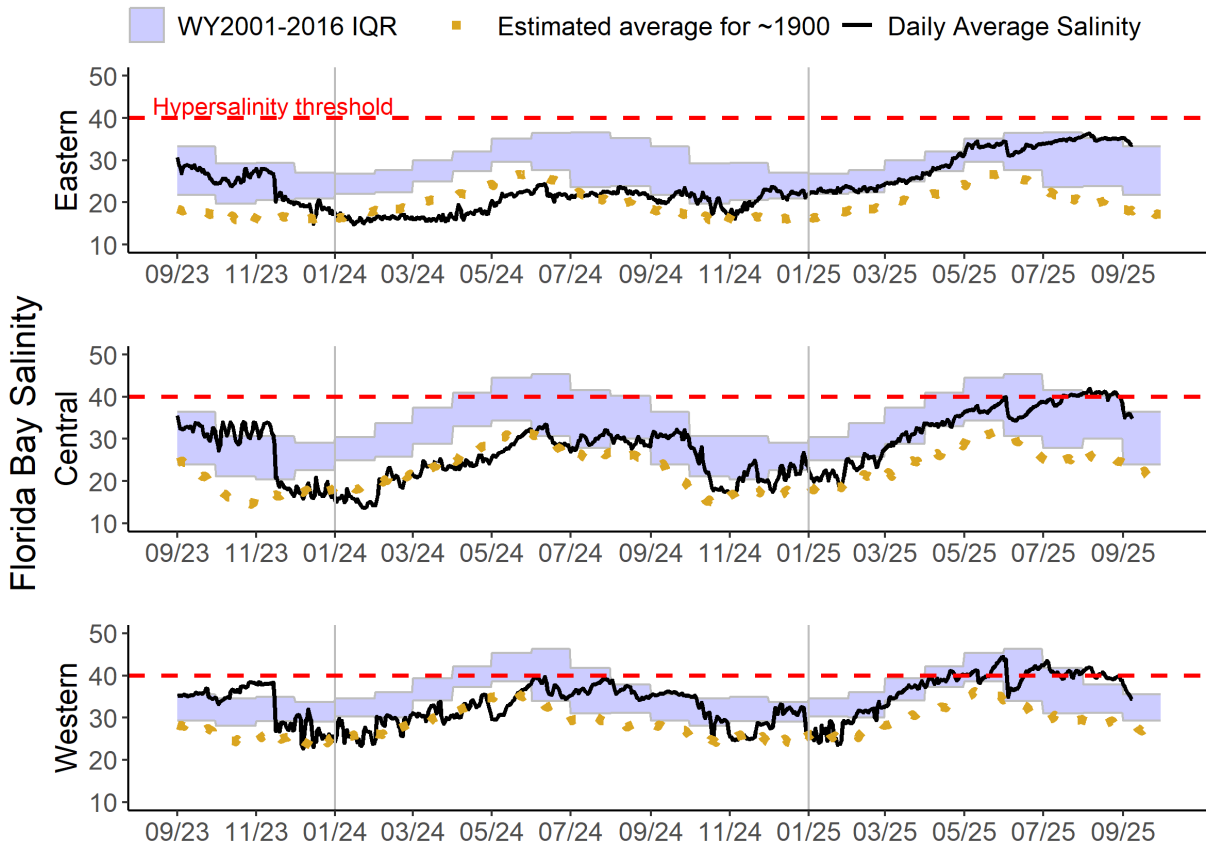


Figure EV-9. Eastern (top panel), Central (middle panel) and Western (bottom panel) Florida Bay daily average salinities with WY2001-2016 interquartile (25-75 percentile) ranges (IQR) and estimated historical daily average salinities. The hypersalinity threshold indicates the level at which salinities start to become harmful to seagrass.

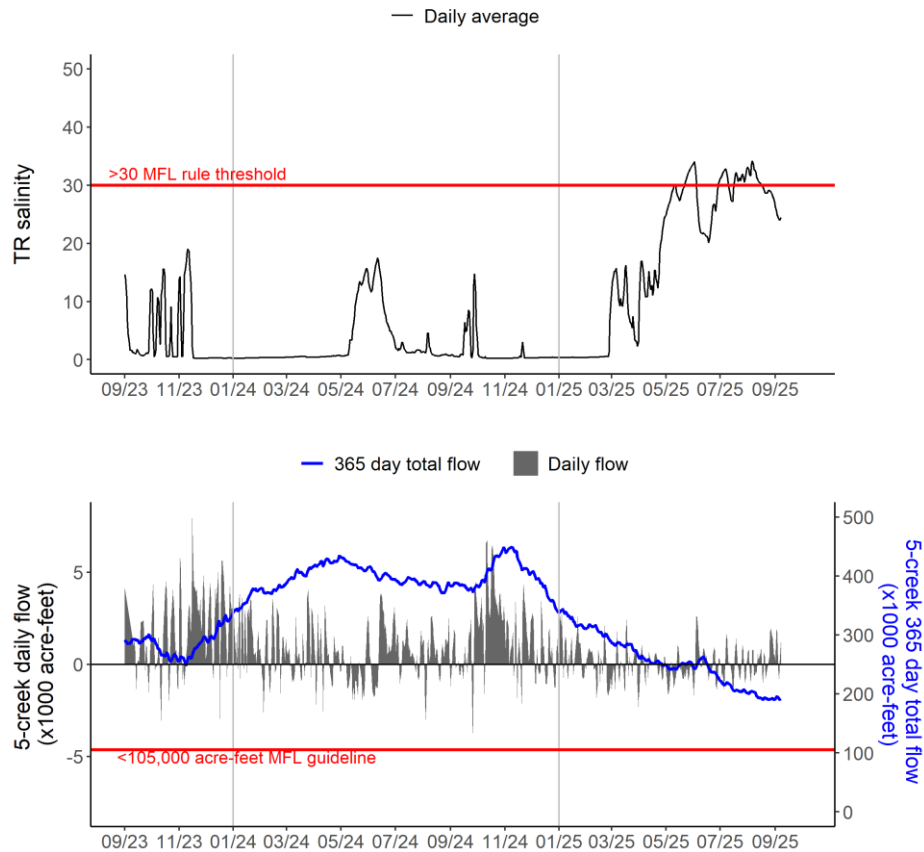


Figure EV-10. Salinity at Taylor River (TR; top) and creek inflow to Florida Bay (bottom) from the five major creeks (McCormick Creek, Taylor River, Mud Creek, Trout Creek, and West Highway Creek). The 30-day moving average salinity and 365-day total creek flow are tracked for the Florida Bay MFL criteria.

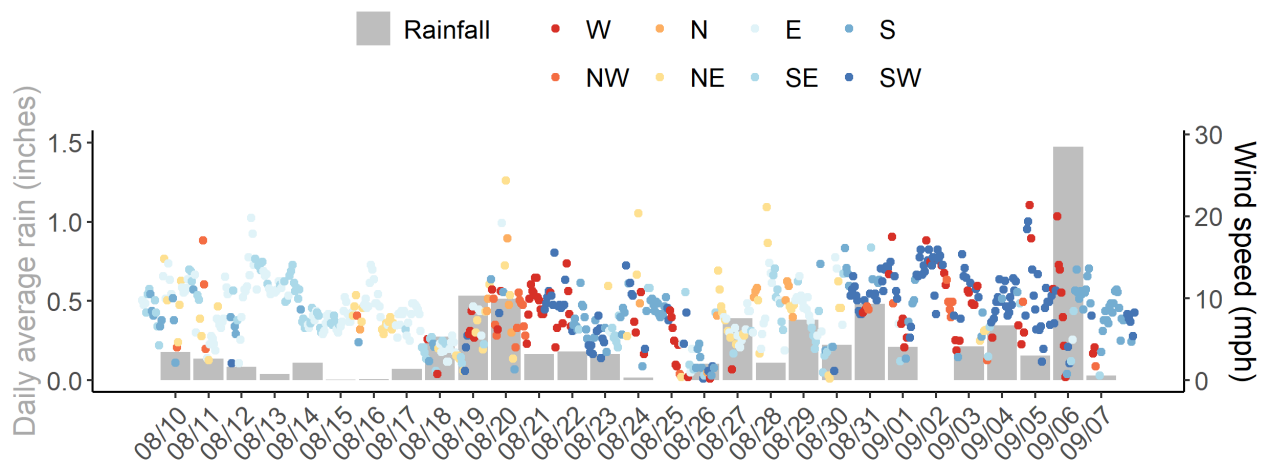


Figure EV-11. Daily average rain across Taylor Slough and Florida Bay, along with hourly average wind speed and direction (measured at Long Key) in Florida Bay over the past four weeks.

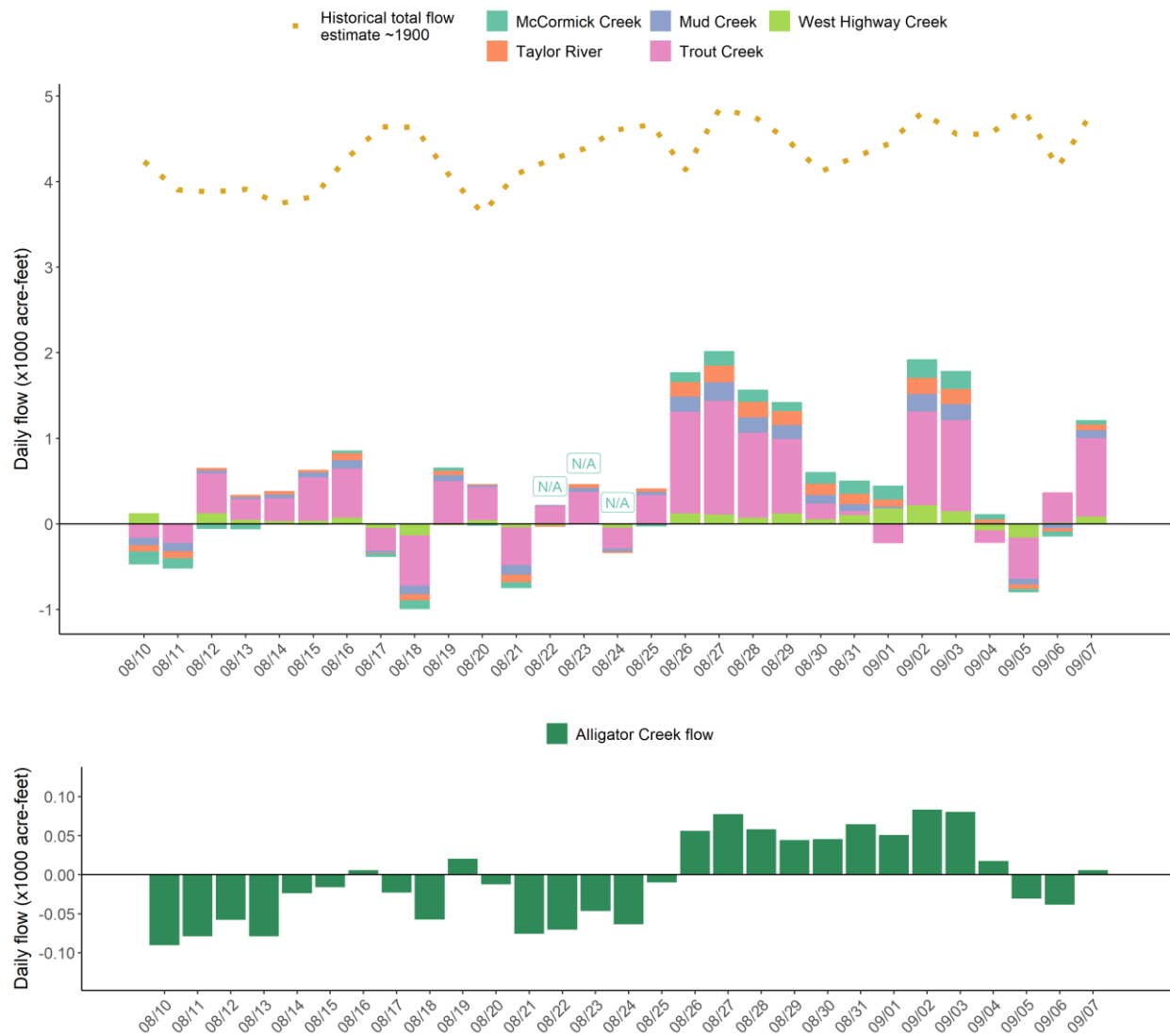


Figure EV-12. Top: daily average creek flow summed between the five major creeks with estimated historical daily flow over the past four weeks. Bottom: daily average creek flow from Alligator Creek over the past four weeks.

Table EV-2. Weekly water depth changes and water management recommendations

SFWMD Everglades Ecological Recommendations, September 7, 2025 (red is new)			
	Weekly change	Recommendation	Reasons
WCA-1	Stage increased by 0.31 feet	No recession and ascension rate no faster than 0.18 feet per week, or 0.36 feet per two weeks.	Protect within basin and downstream habitat and wildlife.
WCA-2A	Stage increased by 0.08 feet	No recession and ascension rate no faster than 0.18 feet per week, or 0.36 feet per two weeks.	Protect within basin and downstream habitat and wildlife.
WCA-2B	Stage increased by 0.01 feet	No recession and ascension rate no faster than 0.18 feet per week or 0.36 feet per two weeks.	Protect within basin and downstream habitat and wildlife.
WCA-3A NE	Stage increased by 0.01 feet	No recession and ascension rate no faster than 0.18 feet per week or 0.36 feet per two weeks.	Protect within basin and downstream habitat and wildlife.
WCA-3A NW	Stage increased by 0.04 feet	No recession and ascension rate no faster than 0.18 feet per week or 0.36 feet per two weeks.	
Central WCA-3A S	Stage increased by 0.07 feet	No recession and ascension rate no faster than 0.18 feet per week or 0.36 feet per two weeks.	Protect within basin and downstream habitat and wildlife.
Southern WCA-3A S	Stage decreased by 0.05 feet		
WCA-3B	Stage increased by 0.15 feet	No recession and ascension rate no faster than 0.18 feet per week or 0.36 feet per two weeks.	Protect within basin and downstream habitat and wildlife.
ENP-SRS	Stage decreased by 0.03 feet	Make discharges to ENP according to COP and TTFF protocol while considering upstream and downstream ecological conditions.	Protect within basin and upstream habitat and wildlife.
Taylor Slough	Stage changes ranged from +0.08 feet to +0.44 feet	Move water southward as possible.	When available, provide freshwater to promote water movement.
FB- Salinity	Salinity changes ranged from -9.4 to -0.6	Move water southward as possible.	When available, provide freshwater to promote water movement.