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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: August 6, 2025

SUBJECT: Weekly Environmental Conditions for Systems Operations

Summary

Weather Conditions and Forecast

On Wednesday, a moist and unstable air mass will remain in place across the SFWMD, with northeasterly steering winds persisting. This will favor numerous showers and thunderstorms, especially over the south-central and southwestern interior through the west coast. Later Wednesday or Thursday, a weak area of low pressure is expected to form and cross near, over, or just south of southern Florida Thursday and Friday before emerging over the eastern Gulf of Mexico by early weekend. Deep tropical moisture associated with this feature will spread across the SFWMD both days, setting the stage for a pronounced increase in rainfall coverage and intensity. Heavier rains could occur from the Florida Keys through the eastern interior and areas near the east coast. Tropical cyclone development is possible but minimal for this system but could lead to a prolonged period of enhanced rainfall across the SFWMD, especially over the interior and western portions, depending on the system's eventual track relative to the peninsula. While confidence is moderate to high regarding a large increase in rainfall, confidence in exact timing, intensity, and spatial distribution from Thursday through the weekend remains low. By Monday, the system is expected to have either moved inland along the Gulf Coast and/or far enough away to no longer influence local rainfall. In its wake, relatively drier air will arrive over the SFWMD as the subtropical high re-establishes itself from the western Atlantic into Florida. This transition will favor widely scattered early-day rainfall along the east coast, followed by decreasing coverage, and a return to more typical afternoon activity concentrated over the interior and western half of the SFWMD. For the seven-day period ending next Tuesday morning, total area-averaged rainfall across the SFWMD is expected to be well above the daily climatological average, and at minimum, above average, and possibly one of the wettest week-long periods this wet season.

Kissimmee

Releases were made from East Lake Toho and Lake Toho to keep lake stage at the regulation schedule line. Releases from Kissimmee-Cypress-Hatchineha followed the Headwaters Revitalization Schedule Increment 1 Temporary Deviation Discharge Plan. Weekly average discharge on August 3, 2025, was 1,100 cfs at S-65 and 1,200 cfs at S-

65A, respectively. Mean weekly water depth on the Kissimmee River floodplain decreased by 0.01 feet to 0.35 feet. The weekly average concentration of dissolved oxygen in the Kissimmee River was 2.6 mg/L, which is above both the potentially lethal level of 1.0 mg/L and the stressful level of 2.0 mg/L (**Figure KB-6**).

Lake Okeechobee

Lake Okeechobee stage was 10.74 feet NAVD88 (12.05 ft NGVD29) on August 3, 2025, which was 0.02 feet lower than the previous week and 0.66 feet higher than a month ago. Average daily inflows (excluding rainfall) decreased from 3,180 cfs the previous week to 1,510 cfs. Average daily outflows (excluding evapotranspiration) increased from 30 cfs the previous week to 720 cfs. The most recent non-obsured satellite image from August 2, 2025, NOAA's Harmful Algal Bloom Monitoring System suggests moderate to high cyanobacteria potential across the lake, primarily in the northern and central portions.

Estuaries

Total inflow to the St. Lucie Estuary averaged 522 cfs over the past week with no flow coming from Lake Okeechobee. Mean salinities increased 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 1,512 cfs over the past week with no flow coming from Lake Okeechobee. Over the past week, salinities remained below 1 at S-79 and Val I-75, increased at Ft. Myers and Cape Coral, and decreased at Shell Point and Sanibel. Salinities were within the optimal range for adult eastern oysters at Cape Coral and Shell Point and in the stressed range at Sanibel.

Stormwater Treatment Areas

For the week ending August 3, 2025, 1,400 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 28,800 ac-feet, and total inflows to the STAs approximately 254,000 ac-feet. STA cells are near or above target stage except STA 1E EAV cells that are slightly below 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 1 for inflow canal dredging and 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-2.

Everglades

Below average rainfall the past week coincided with increased recessions across the system. Most regions were categorized as having a poor rate of stage change. Water depths are well below average for this time of year across the Everglades Protection Area except for the central and southern WCA-2A which are in the 50th percentile, and northeastern Shark River Slough. The northern WCA-2A experienced a wildfire last week, highlighting the dry conditions in this region. The 30-day moving average of salinity at the Taylor River station has been above 30 for 20 days and is 10 days away from an exceedance. Salinities increased in Florida Bay (FB), with the western and the central regions remaining above the hypersalinity threshold. Average daily flow from the five major creeks into FB was net negative over the past week.

Supporting Information

Kissimmee Basin

Upper Kissimmee

On August 3, 2025, mean daily lake stages were 55.6 feet NAVD88 (0.1 above schedule) in East Lake Toho, 52.4 feet NAVD88 (0.1 feet above schedule) in Lake Toho, and 48.9 feet NAVD88 (1.4 feet below 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 August 3, 2025, mean weekly discharge was 1,100 cfs at S-65 and 1,200 cfs at S-65A, respectively. Mean weekly discharge from the Kissimmee River was 1,300 cfs and 1,100 cfs at S-65D and S-65E, respectively (**Table KB-2**). Mean weekly headwater stages were 45.4 feet NAVD88 at S-65A and 24.6 feet NAVD88 at S-65D. Mean weekly river channel stage increased by 0.1 feet to 35.2 feet NAVD88 (**Figure KB-4**). Mean weekly water depth on the Kissimmee River floodplain decreased by 0.01 feet to 0.35 feet (**Table KB-2, Figure KB-5**). The weekly average concentration of dissolved oxygen in the Kissimmee River was unchanged from the previous week's value of 2.6 mg/L (**Table KB-2, Figure KB-6**).

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 B3 of Increment 1, use the Increment 1 Interpolation Tool to determine discharge relative to stage in KCH. When stage rises into Zone B2, target flows of 1,400 cfs at S65A.

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)	
							8/3/25	7/27/25
Lakes Hart and Mary Jane	S-62	LKMJ	36	58.9	R	58.9	0.0	0.0
Lakes Myrtle, Preston and Joel	S-57	S-57	1	60.0	R	60.0	0.0	0.0
Alligator Chain	S-60	ALLI	24	62.2	R	62.2	0.0	0.0
Lake Gentry	S-63	LKGT	54	60.0	R	59.9	0.1	0.0
East Lake Toho	S-59	TOHOE	120	55.6	R	55.5	0.1	0.0
Lake Toho	S-61	TOHOW S-61	210	52.4	R	52.3	0.1	0.1
Lakes Kissimmee, Cypress and Hatchineha	S-65	KUB011 LKIS5B	1100	48.9	T	50.3	-1.4	-1.2

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.

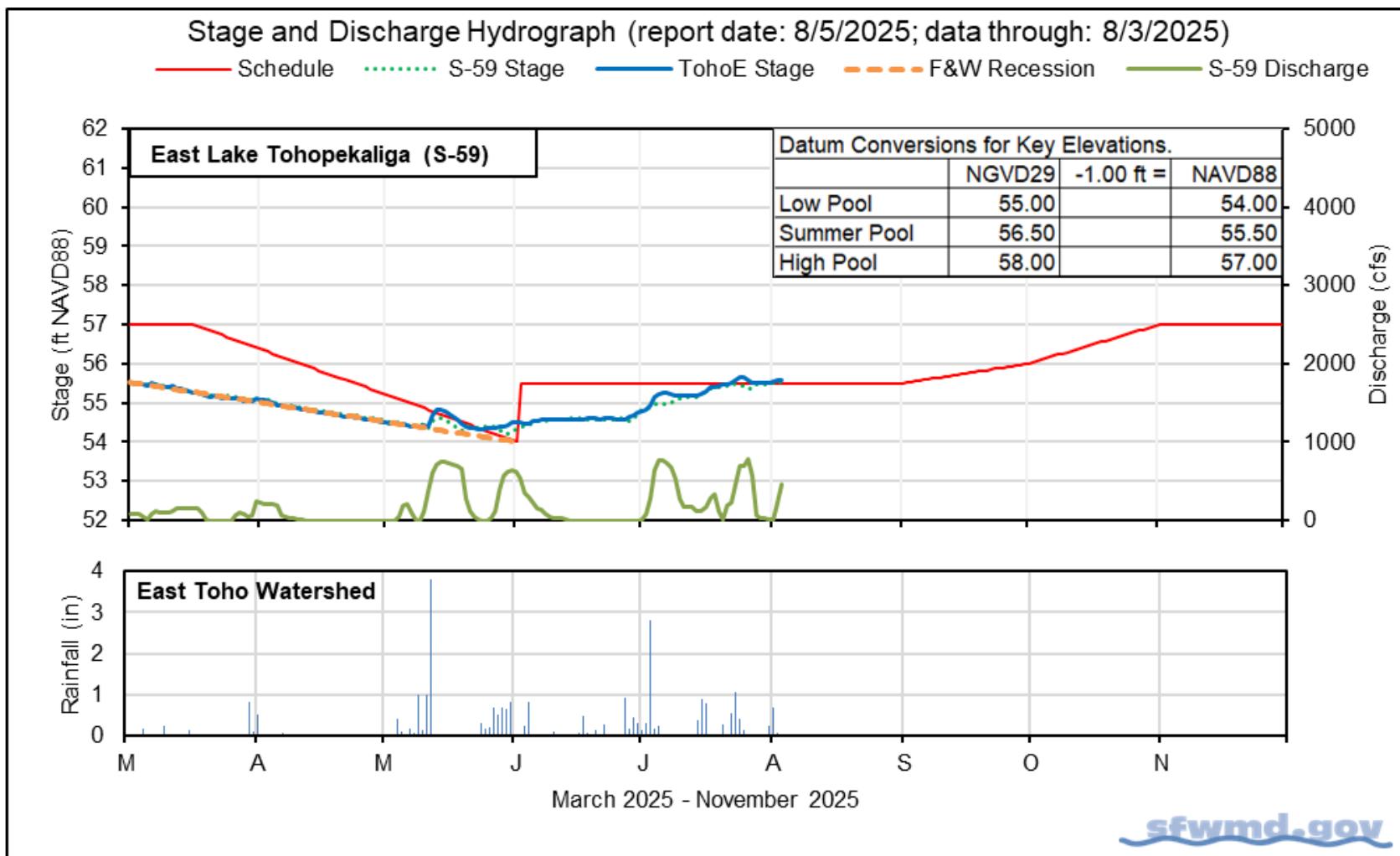


Figure KB-1. East Lake Toho regulation schedule, stage, discharge, and rainfall.

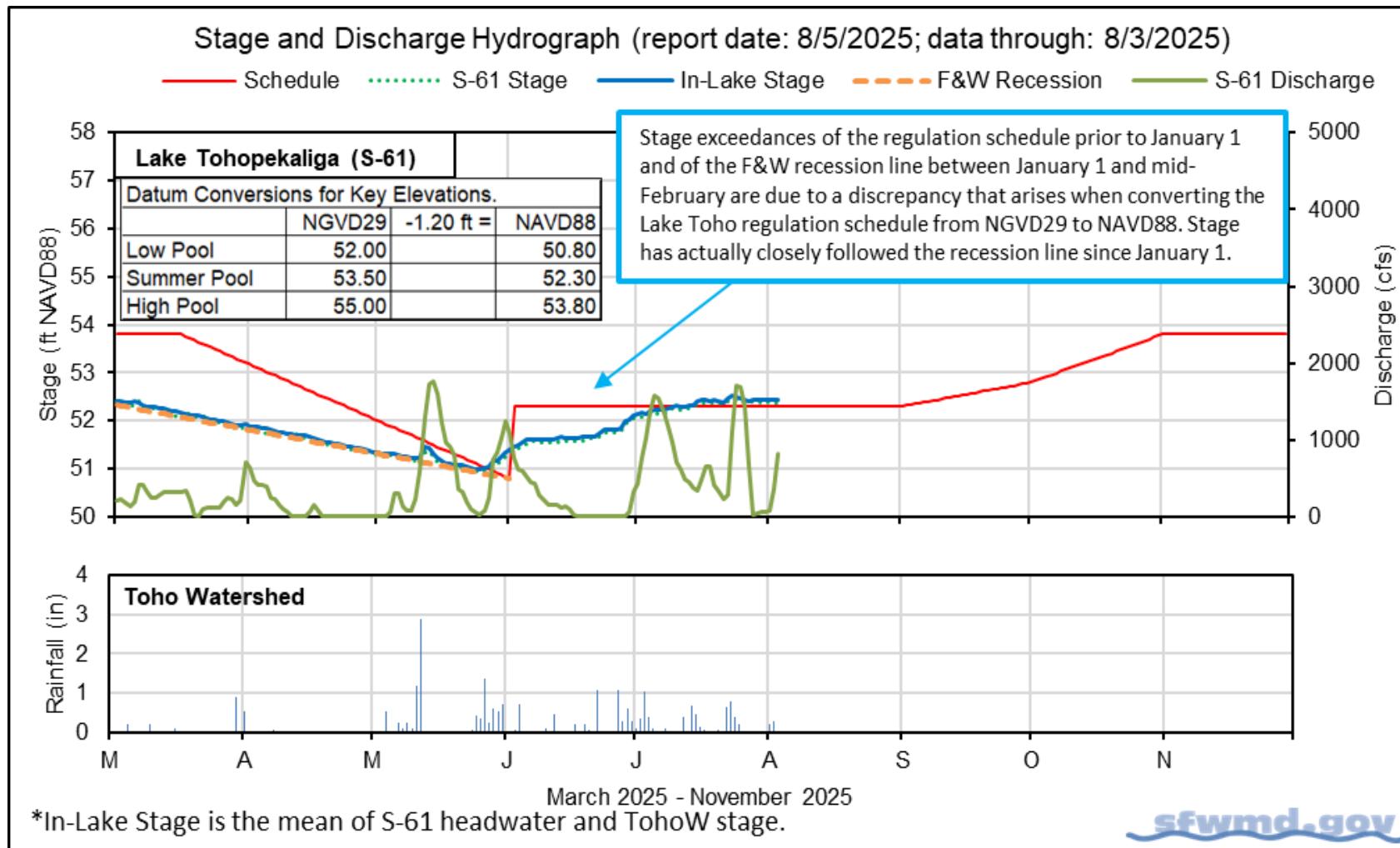


Figure KB-2. Lake Toho regulation schedule, stage, discharge, and rainfall.

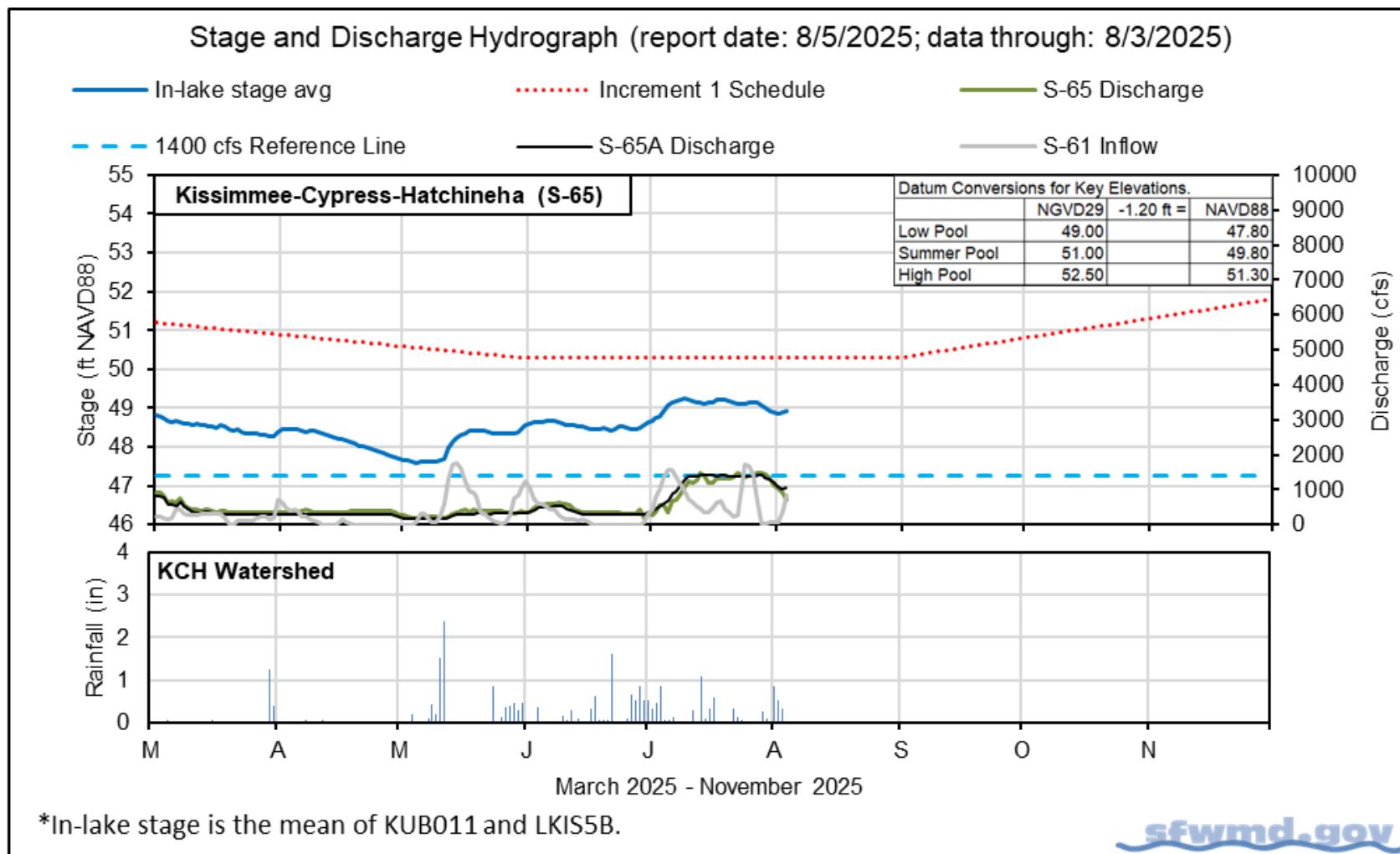


Figure KB-3. Lakes Kissimmee, Cypress and Hatchineha regulation schedule, stage, discharge, and rainfall.

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			
		8/3/25	8/3/25	7/27/25	7/20/25	7/13/25
Discharge	S-65	730	1,100	1,400	1,300	1,100
Discharge	S-65A ^a	1,000	1,200	1,400	1,400	1,300
Headwater Stage (feet NAVD88)	S-65A	45.5	45.4	45.3	45.3	45.2
Discharge	S-65D ^b	1,300	1,300	1,200	1,200	900
Headwater Stage (feet NAVD88)	S-65D ^c	24.6	24.6	24.6	24.6	24.6
Discharge (cfs)	S-65E ^d	1,200	1,100	1,200	1,100	830
Discharge (cfs)	S-67	0	0	0	0	0
Dissolved Oxygen (mg/L) ^e	Phase I, II/III river channel	1.9	2.6	2.6	2.8	3.5
River channel mean stage (feet NAVD88) ^f	Phase I river channel	35.1	35.2	35.1	34.9	33.9
Mean depth (feet) ^g	Phase I floodplain	0.34	0.35	0.36	0.34	0.30

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.

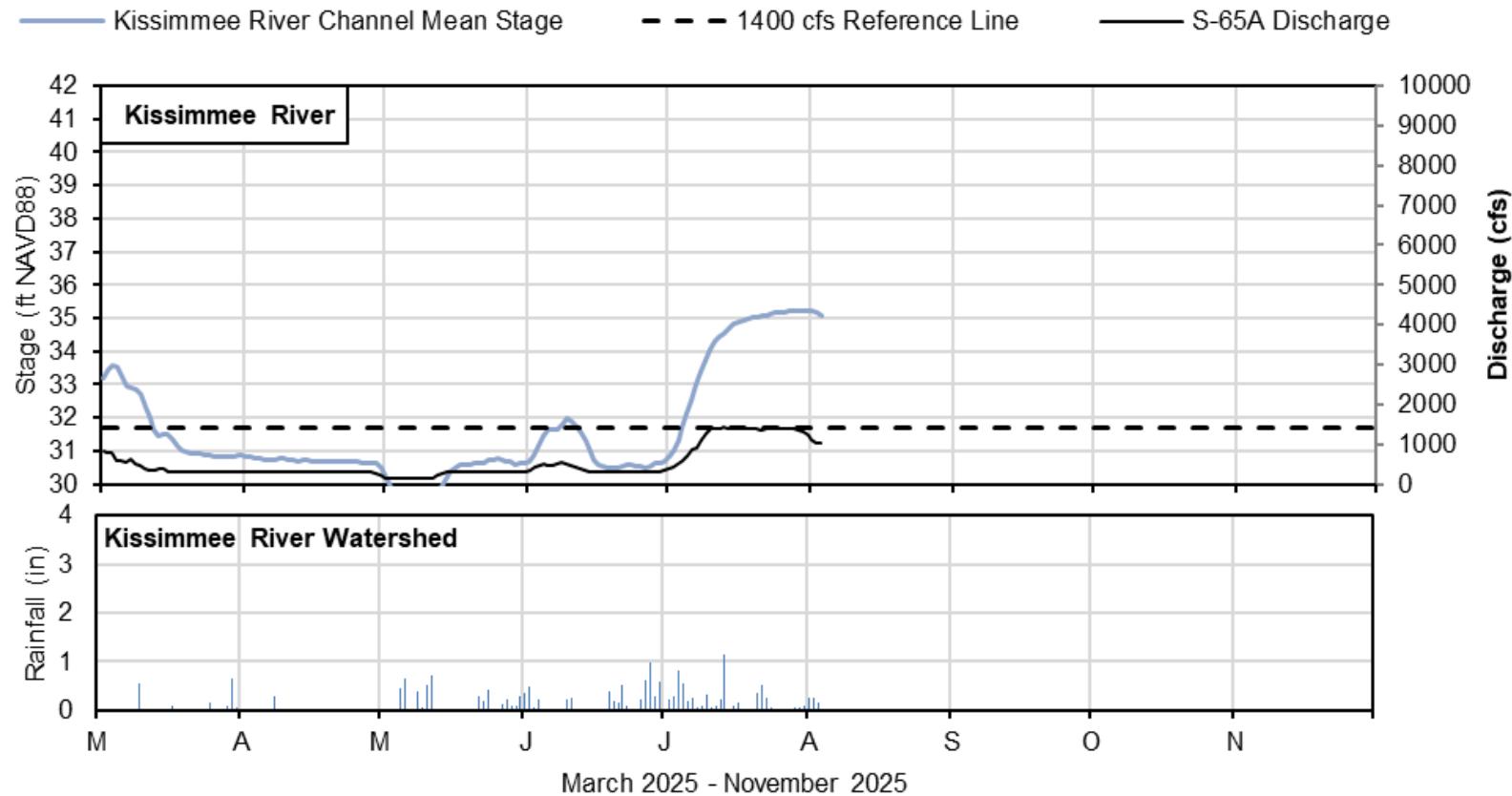
d. Combined discharge from S-65E and S-65EX1.

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: 8/5/2025; data through: 8/3/2025)



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

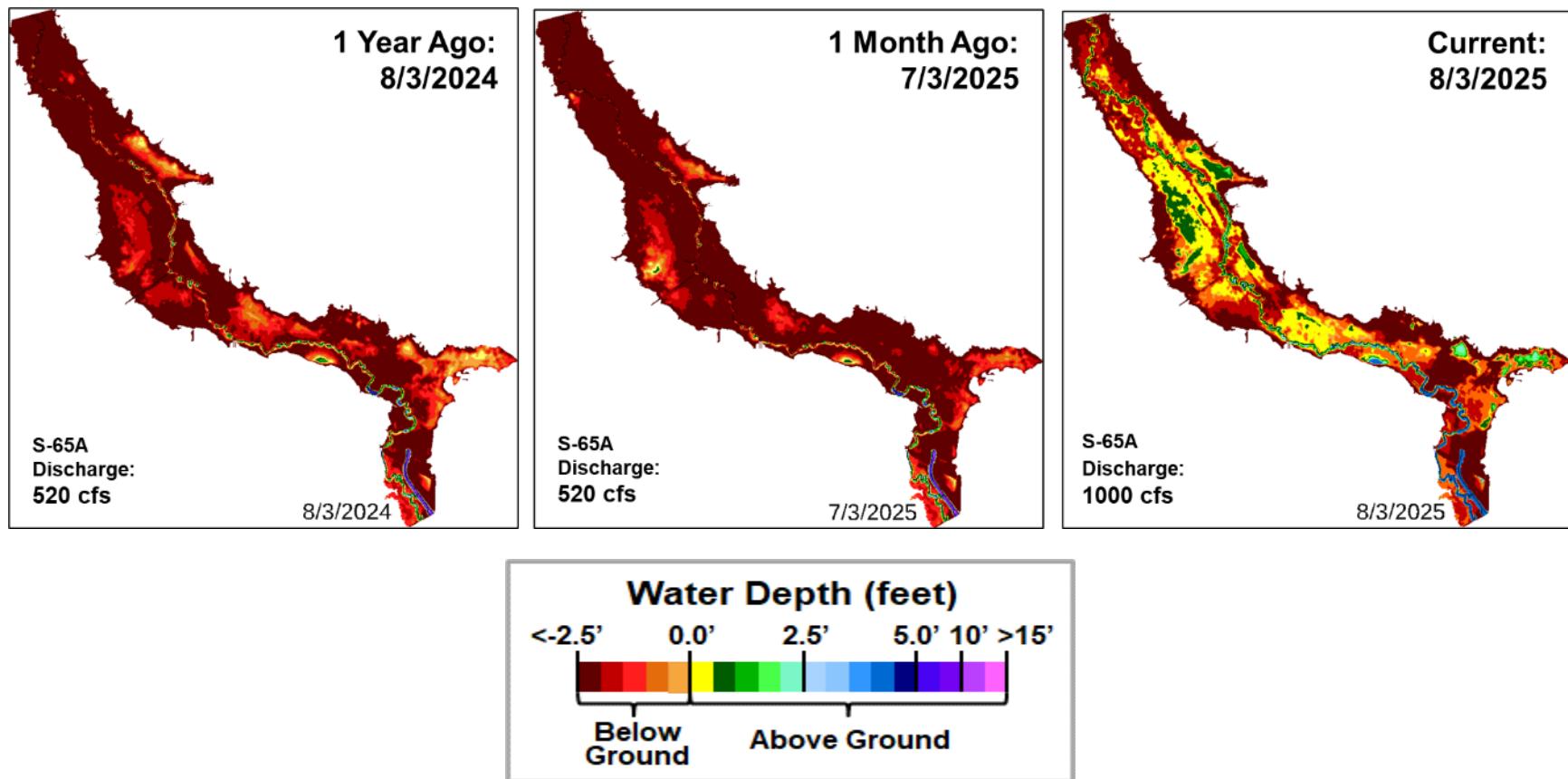
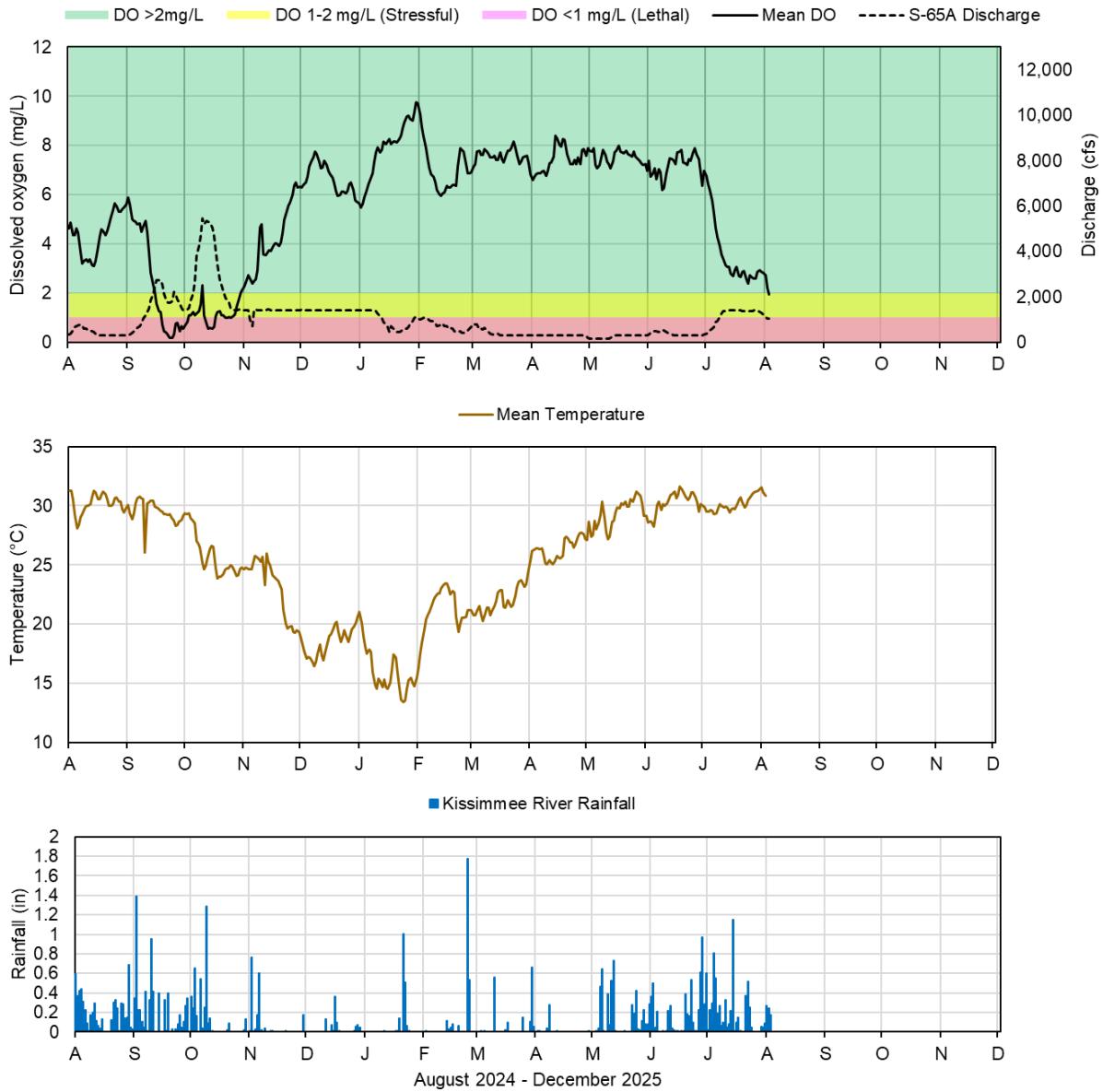


Figure KB-5. Phase I-II-III area Kissimmee River floodplain water depths (from left to right) one year ago, one month ago, and current.



Report Date: 8/5/2025; data are through: 8/3/2025

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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.

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

Discharge Guidance for Increment I Temporary Deviation Discharge Plan

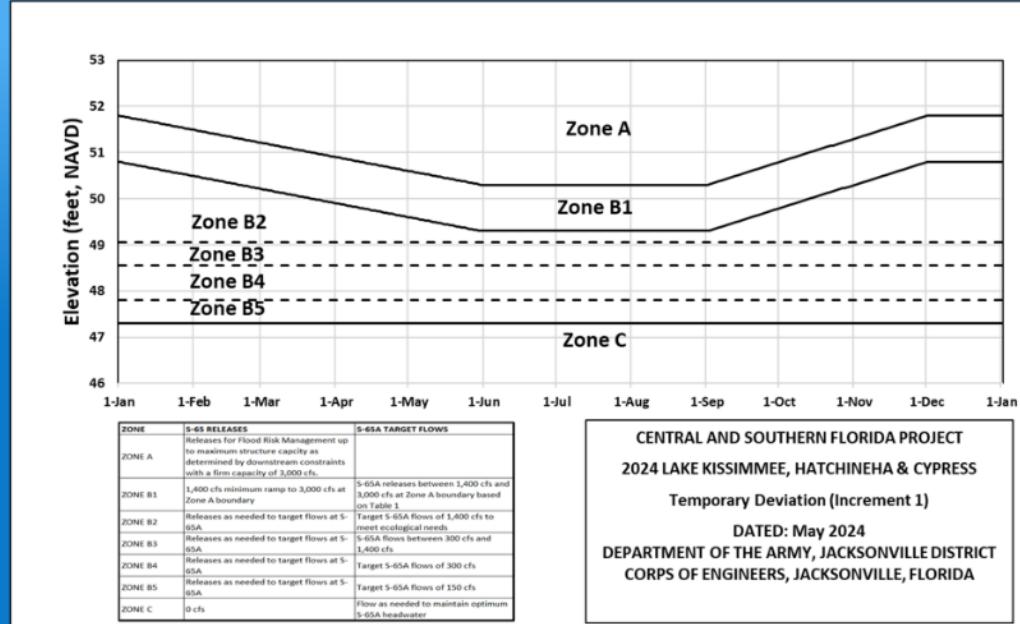
ZONE	S-65 RELEASES	S-65A TARGET FLOWS
ZONE A	Releases for Flood Risk Management up to maximum structure capacity as determined by downstream constraints with a firm capacity of 3,000 cfs.	
ZONE B1	1,400 cfs minimum ramp to 3,000 cfs at Zone A boundary	S-65A releases between 1,400 cfs and 3,000 cfs at 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 10.74 feet NAVD88 (12.05 ft NGVD29) on August 3, 2025, which was 0.02 feet lower than the previous week and 0.66 feet higher than a month ago (**Figure LO-1**). Lake stage is in Zone D of the regulation schedule (**Figure LO-2**) and is within the recovery ecological envelope (**Figure LO-3**). According to NEXRAD, 0.3 inches of rain fell directly over the lake during the previous week, while 1.4 inches were lost to evapotranspiration.

Average daily inflows (excluding rainfall) decreased from 3,180 cfs the previous week to 1,510 cfs. The highest inflow came from the Kissimmee River (1,140 cfs). Average daily outflows (excluding evapotranspiration) increased from 30 cfs the previous week to 720 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 August 2, 2025, NOAA's Harmful Algal Bloom Monitoring System suggests moderate to high cyanobacteria potential across the lake, primarily in the northern and central portions (**Figure LO-6**).

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

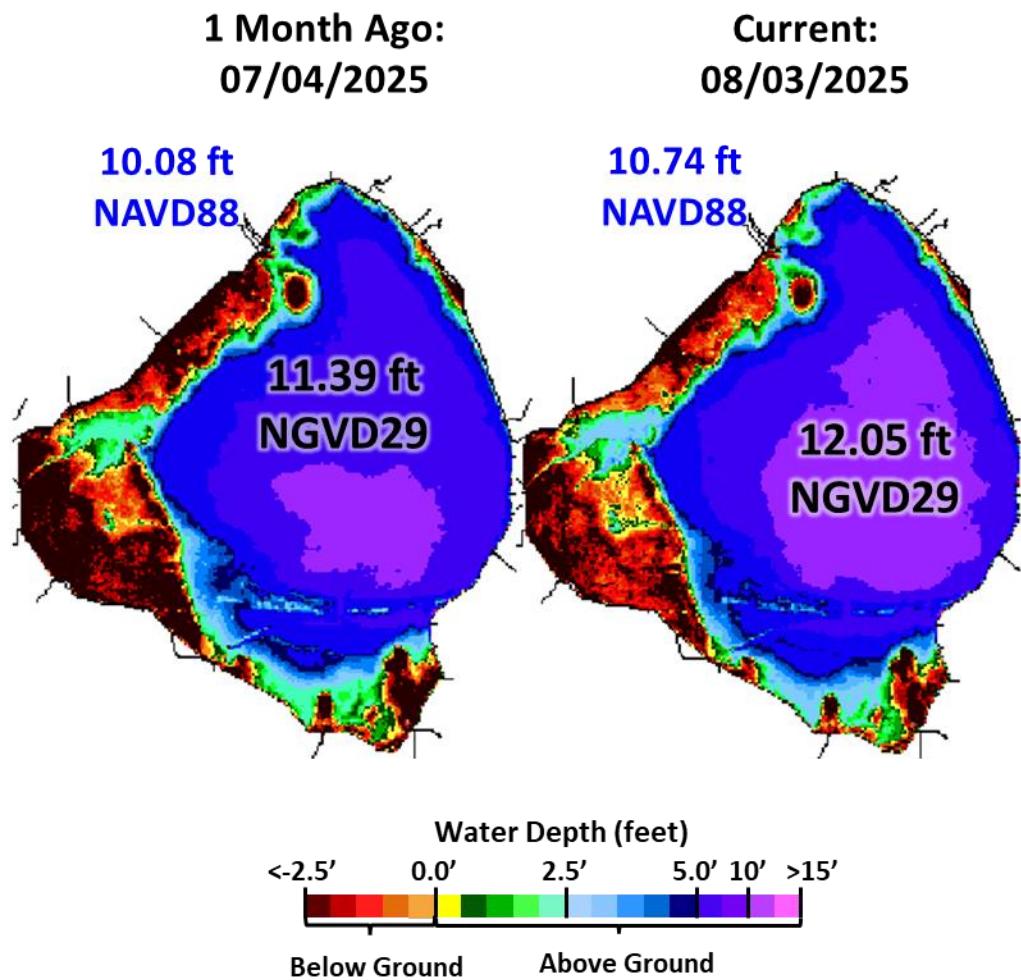


Figure LO-1. Lake Okeechobee water depth estimates based on South Florida Water Depth Assessment Tool (SFWDAT).

Lake Okeechobee Water Level History and Projected Stages

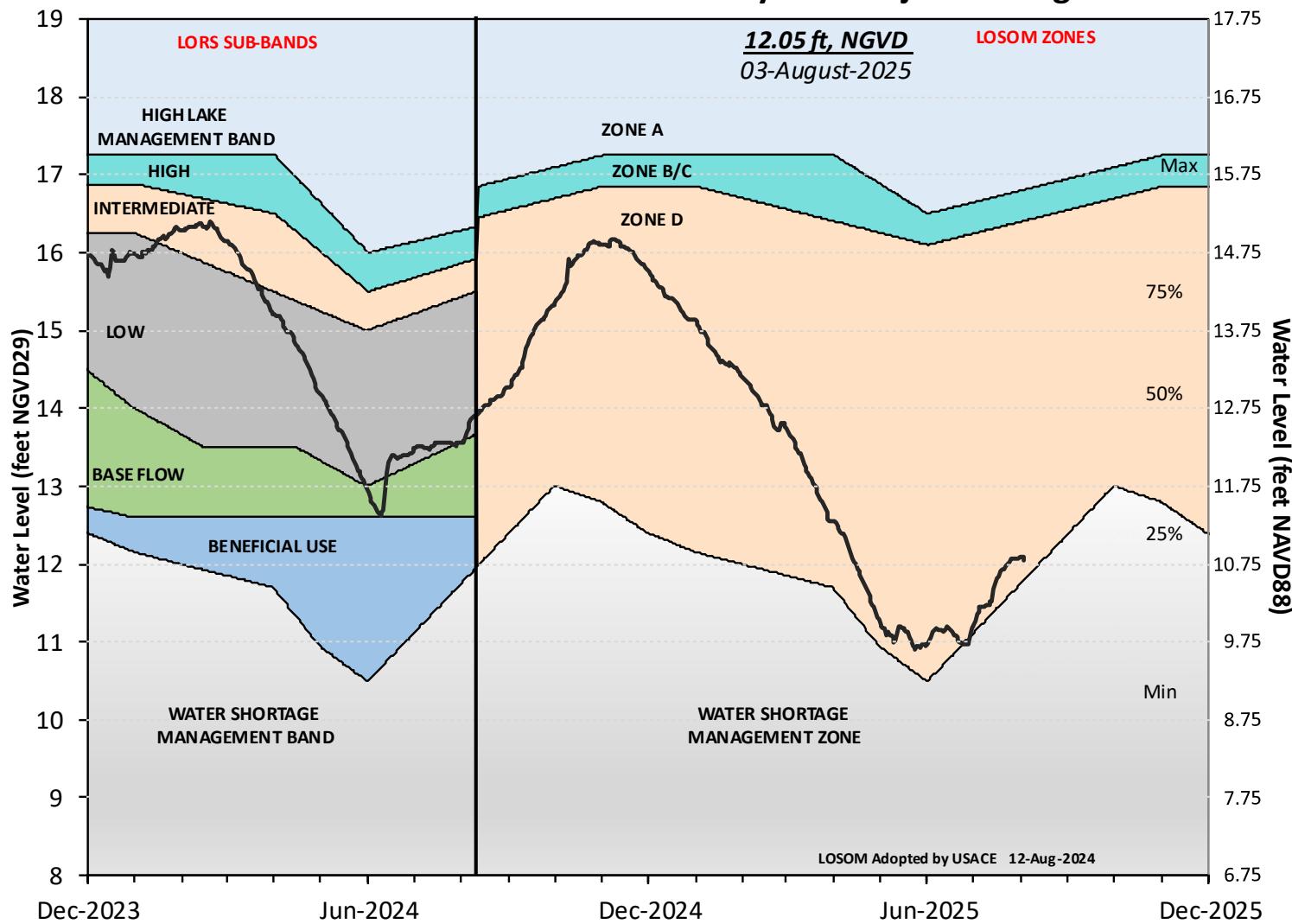


Figure LO-2. Recent Lake Okeechobee stages with projected stages based on a dynamic position analysis.
Note: stages are in NGVD29, approximate NAVD88 values are shown for reference.

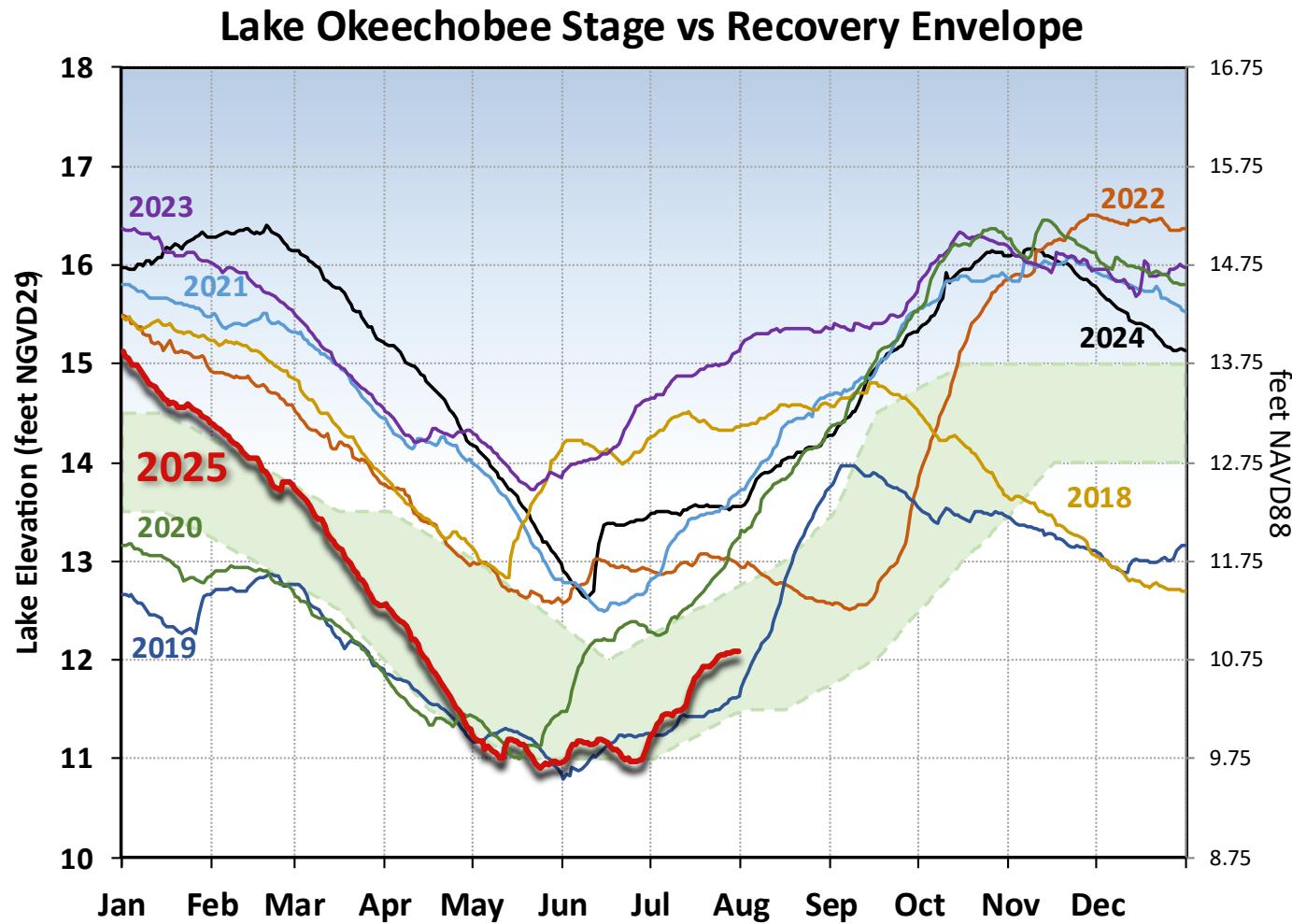


Figure LO-3. The current and seven prior year's annual stage hydrographs for Lake Okeechobee in comparison to the recovery envelope (light green). A shift from the normal ecological envelope to the recovery envelope occurred because the 30-day minimum lake stage (elevations exposed for at least 30 days,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

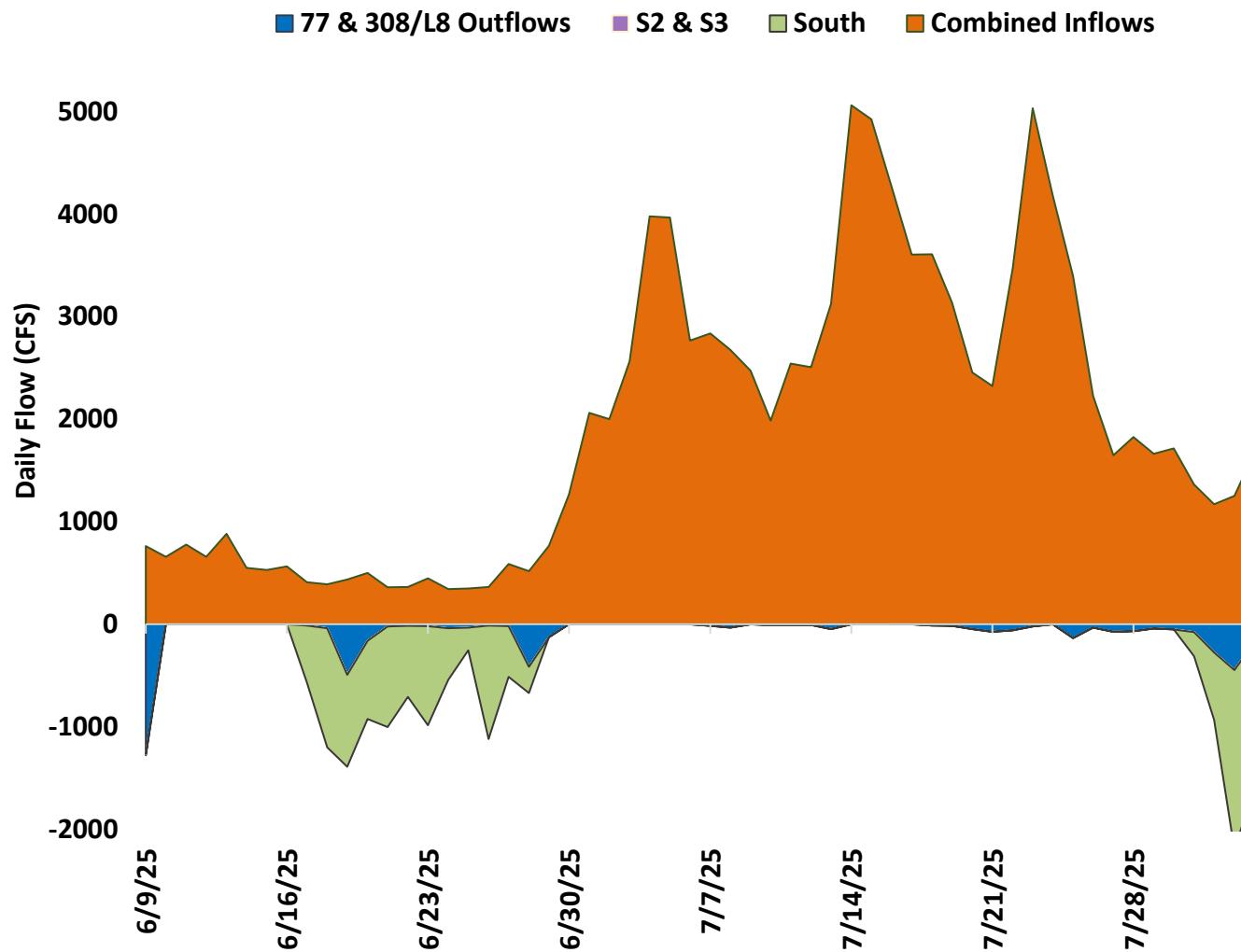


Figure LO-4. Major inflows (orange) to and outflows east and west (blue) from Lake Okeechobee. Outflows south are shown in green. Flows into Lake Okeechobee from the L-8 canal through S-271 (formerly Culvert 10A) or from the C-44 canal through the S-308 are included as inflows. Conversely, flows from 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.

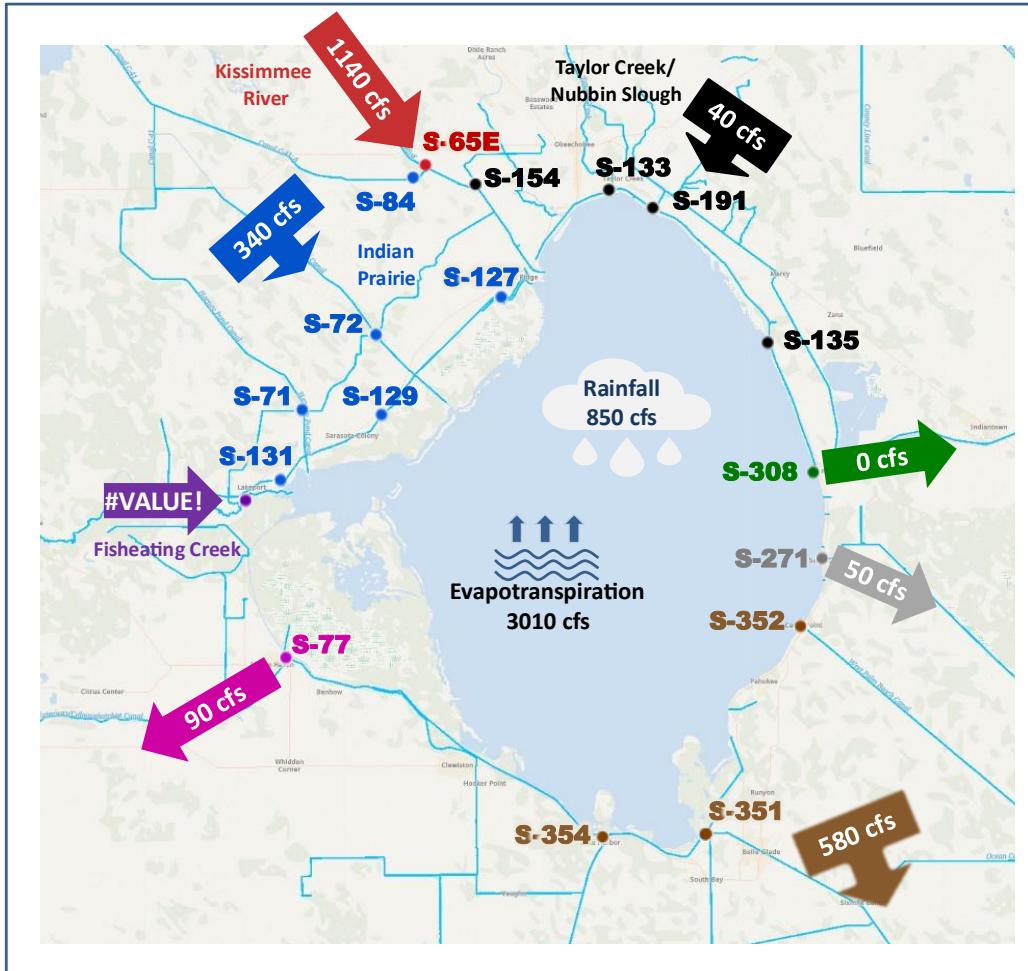


Figure LO-5. Inflows into Lake Okeechobee from Indian Prairie basins, Taylor Creek/Nubbin Slough, Kissimmee River and Fisheating Creek (currently no flow data available for FECR), and outflows to the west via S-77, to the east via S-308, to the south via S-351, S-352, S-354, and to southeast via S-271 (formerly Culvert 10A) for the week of July 27 – Aug 3, 2025.

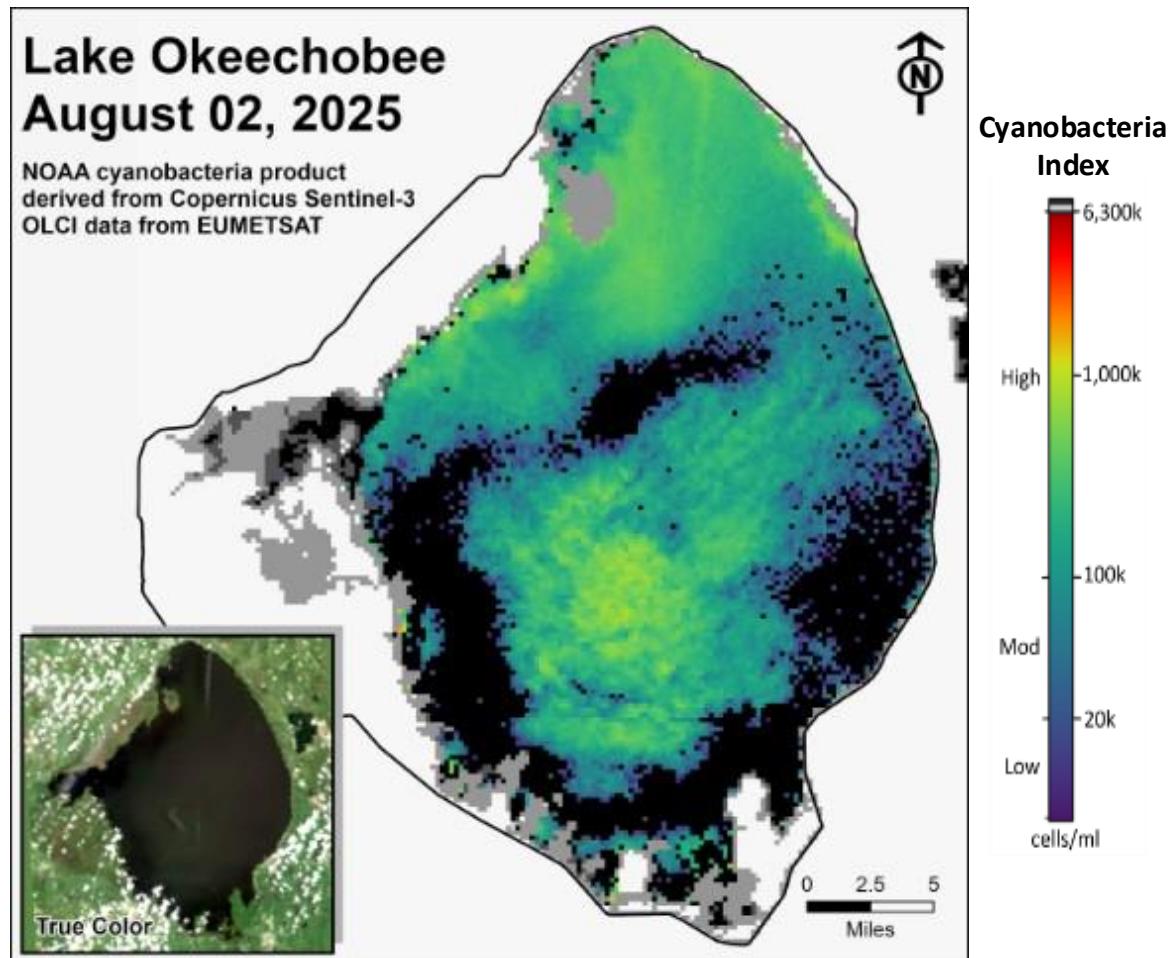


Figure LO-6. Cyanobacteria bloom index level on Lake Okeechobee, based on NOAA's harmful algal bloom monitoring system. Gray color indicates cloud cover. *Provisional NOAA image, subject to change*.

Estuaries

St. Lucie Estuary

Over the past week, mean total inflow to the St. Lucie Estuary was 522 cfs (**Figures ES-1** and **ES-2**), and the previous 30-day mean inflow was 1,551 cfs. For comparison, the historical provisional mean inflows from contributing areas are shown in **Figure ES-2**.

Over the past week, salinities increased at all sites (**Table ES-1** and **Figure ES-3**). The seven-day moving average of the surface and bottom salinities at the US1 Bridge was 11.7. 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 July was 1.6 spat/shell at Rio which was a decrease from the rate recorded in April (**Figure ES-5**).

Caloosahatchee River Estuary

Over the past week, mean total inflow to the Caloosahatchee River Estuary was 1,512 cfs (**Figures ES-6** and **ES-7**), and the previous 30-day mean inflow was 3,199 cfs. For comparison, the historical provisional mean inflows from the contributing areas are shown in **Figure ES-7**.

Over the past week, surface salinities remained below 1 at S-79 and Val I-75, increased at Ft. Myers and Cape Coral, and decreased at Shell Point and 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 Cape Coral and Shell Point and in the stressed range at Sanibel (**Figure ES-10**). The mean larval oyster recruitment rates reported by the FWRI in July were 0.9 spat/shell at Iona Cove and 8.1 spat/shell at Bird Island, indicating that spawning is occurring at both stations in the CRE (**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 641 cfs. Model results from all scenarios predict daily salinity to be 0.3 to 0.9 and the 30-day moving average surface salinity to be 0.3 to 0.4 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 Qui, 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 August 1, 2025, that *Karenia brevis*, the Florida red tide dinoflagellate, was not observed at bloom concentrations 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.

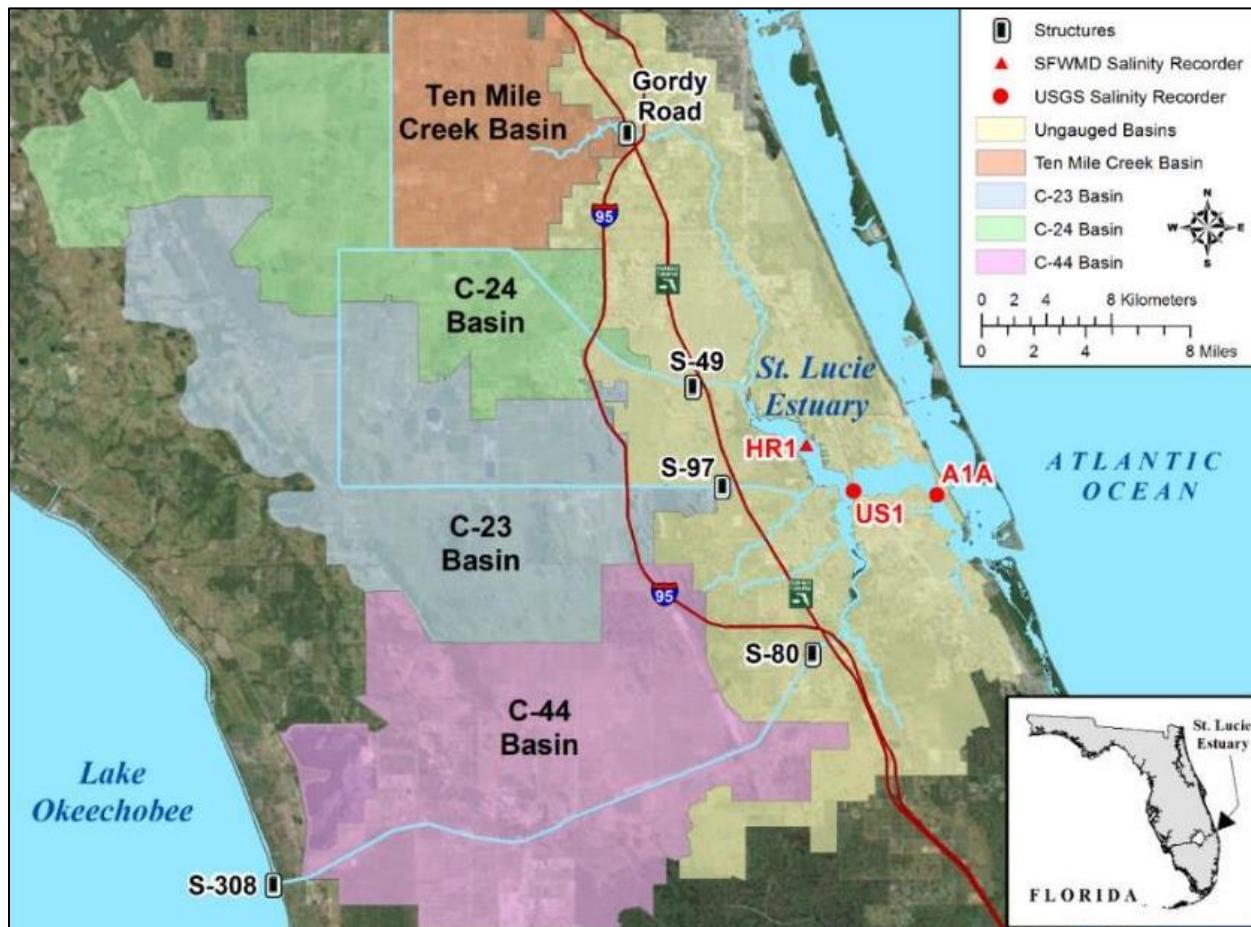


Figure ES-1. Basins, water control structures and salinity monitoring sites in the St. Lucie Estuary.

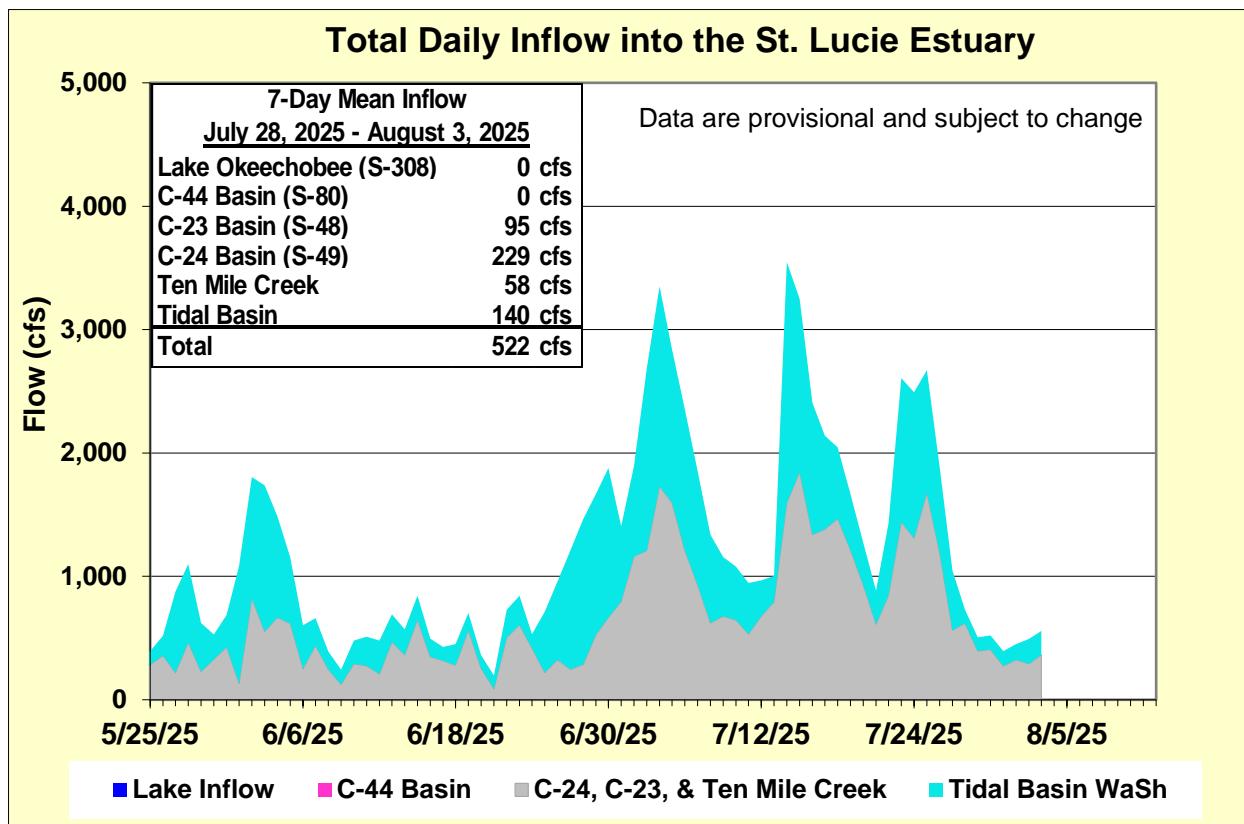


Figure ES-2. Total daily inflows from Lake Okeechobee and runoff from the C-44, C-23, C-24, Ten Mile Creek, and Tidal Basins into the St. Lucie Estuary.

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)	3.4 (1.9)	8.8 (6.6)	10.0 – 25.0
US1 Bridge	10.5 (8.3)	12.9 (10.8)	10.0 – 25.0
A1A Bridge	19.0 (17.9)	25.3 (24.3)	10.0 – 25.0

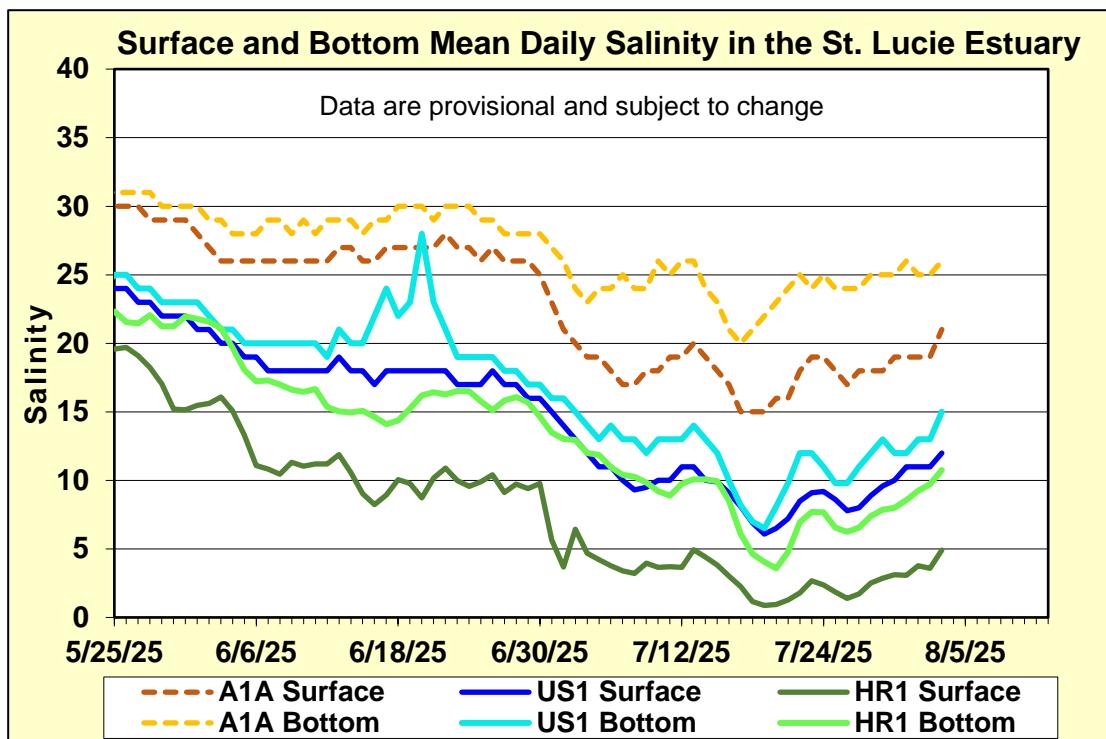


Figure ES-3. Mean daily salinity at the A1A, US1, and HR1 sites in the St. Lucie Estuary.

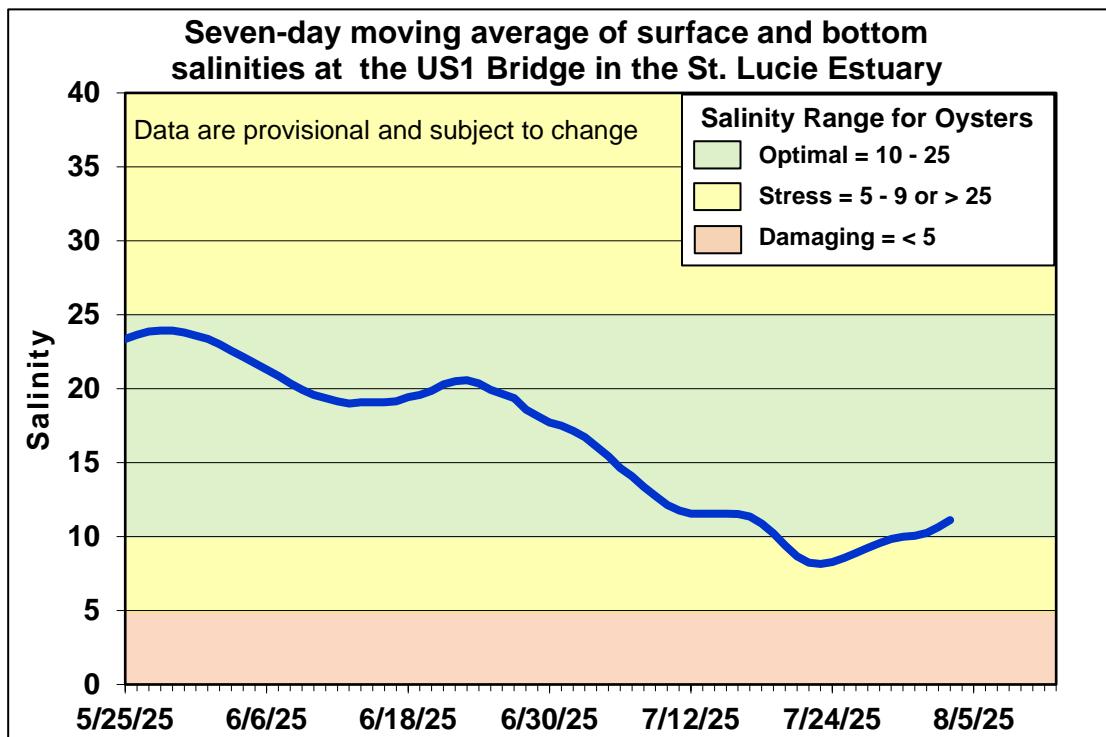


Figure ES-4. Seven-day moving average of the surface and bottom salinities at the US1 Bridge in the St. Lucie Estuary.

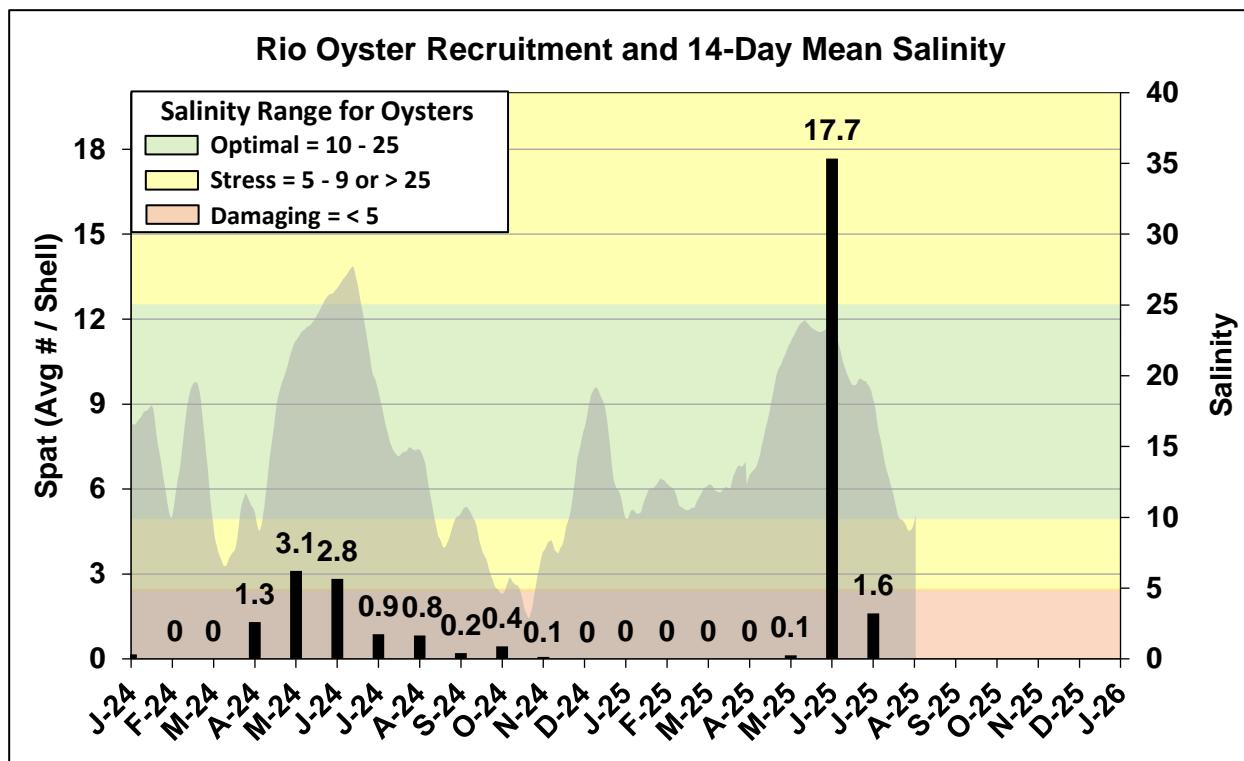


Figure ES-5. Mean oyster recruitment at the Rio oyster monitoring station and 14-day mean salinity at US1 Bridge.

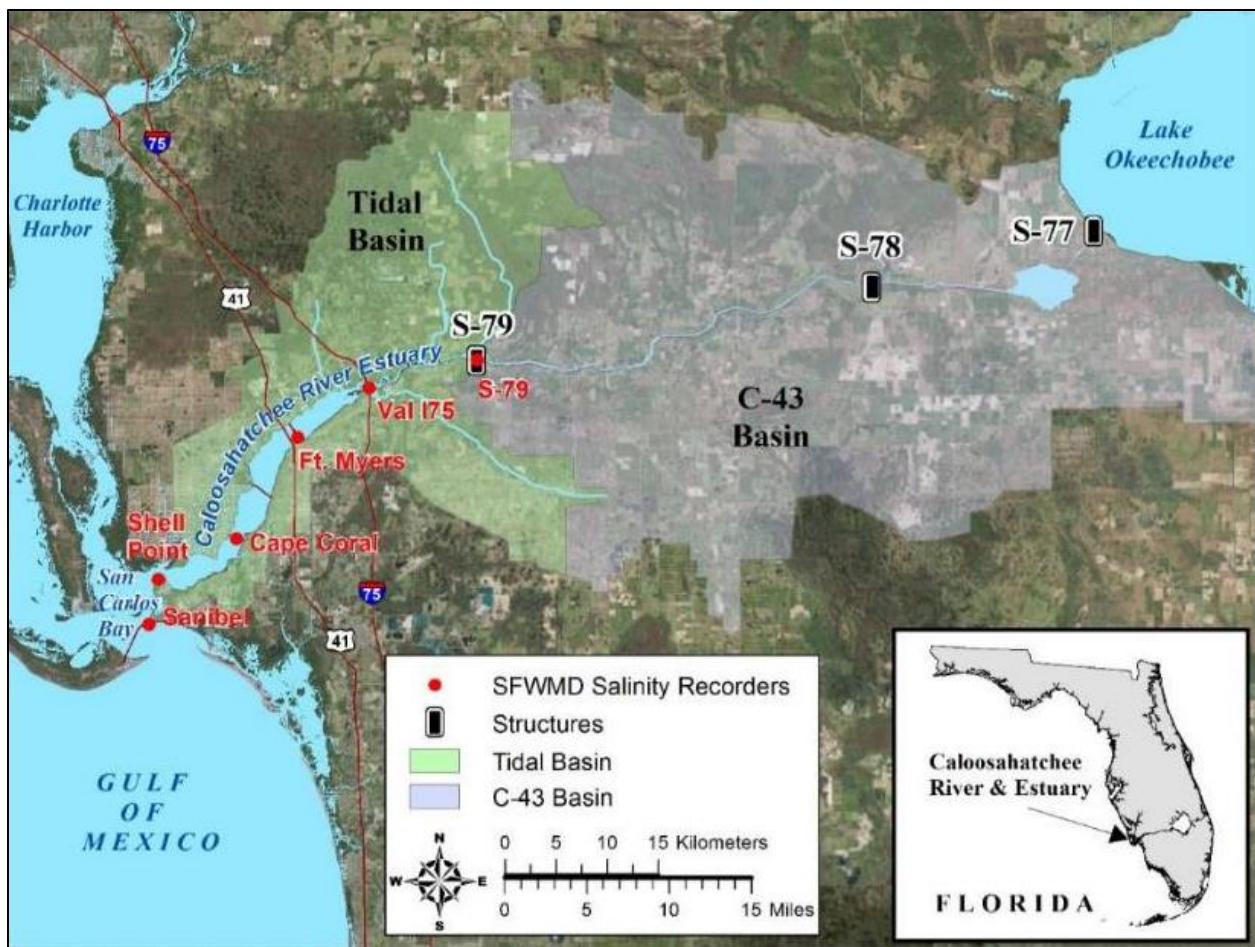


Figure ES-6. Basins, water control structures, and salinity monitoring sites in the Caloosahatchee River Estuary.

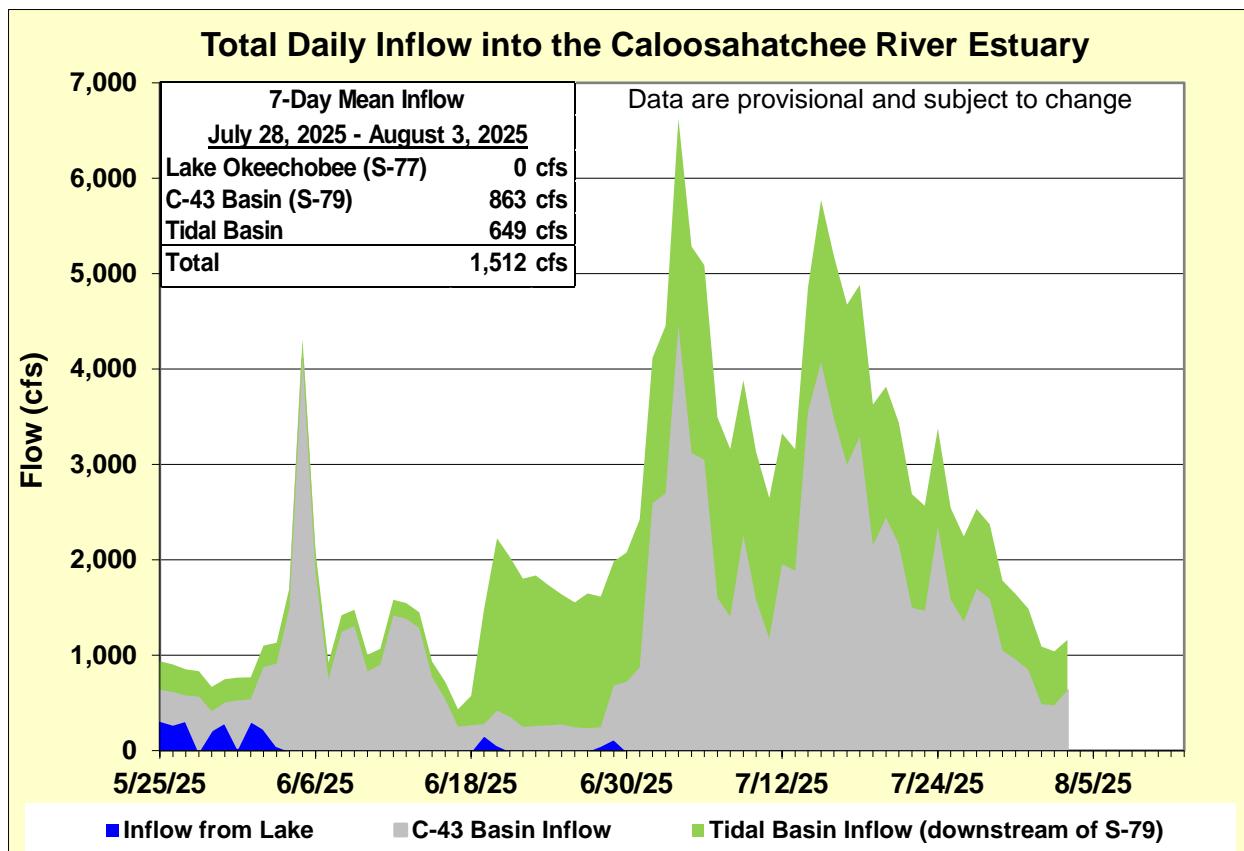


Figure ES-7. Total daily inflows from Lake Okeechobee, and runoff from the C-43 and Tidal basins into the Caloosahatchee River Estuary.

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	3.1 (1.8)	4.7 (3.0)	0.0 – 10.0
Cape Coral	9.9 (8.7)	12.8 (11.4)	10.0 – 25.0
Shell Point	23.3 (24.7)	25.5 (26.0)	10.0 – 25.0
Sanibel	27.1 (30.0)	31.5 (31.3)	10.0 – 25.0

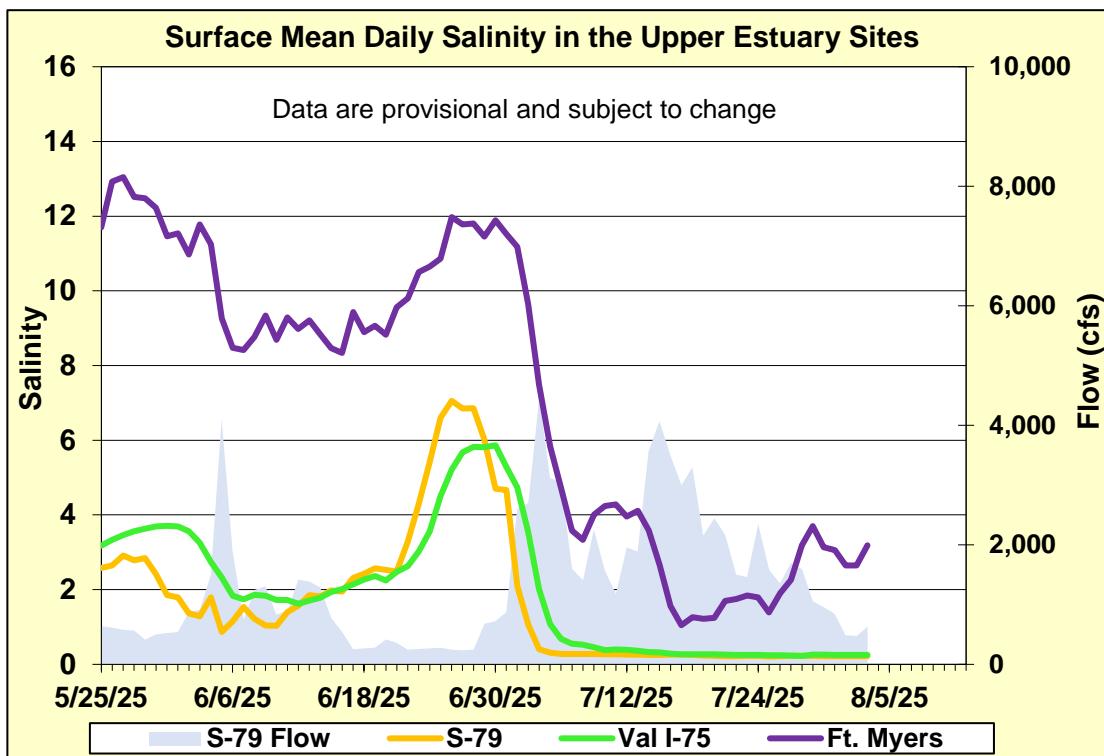


Figure ES-8. Mean daily salinity at upper Caloosahatchee River Estuary monitoring sites and mean daily flow at S-79.

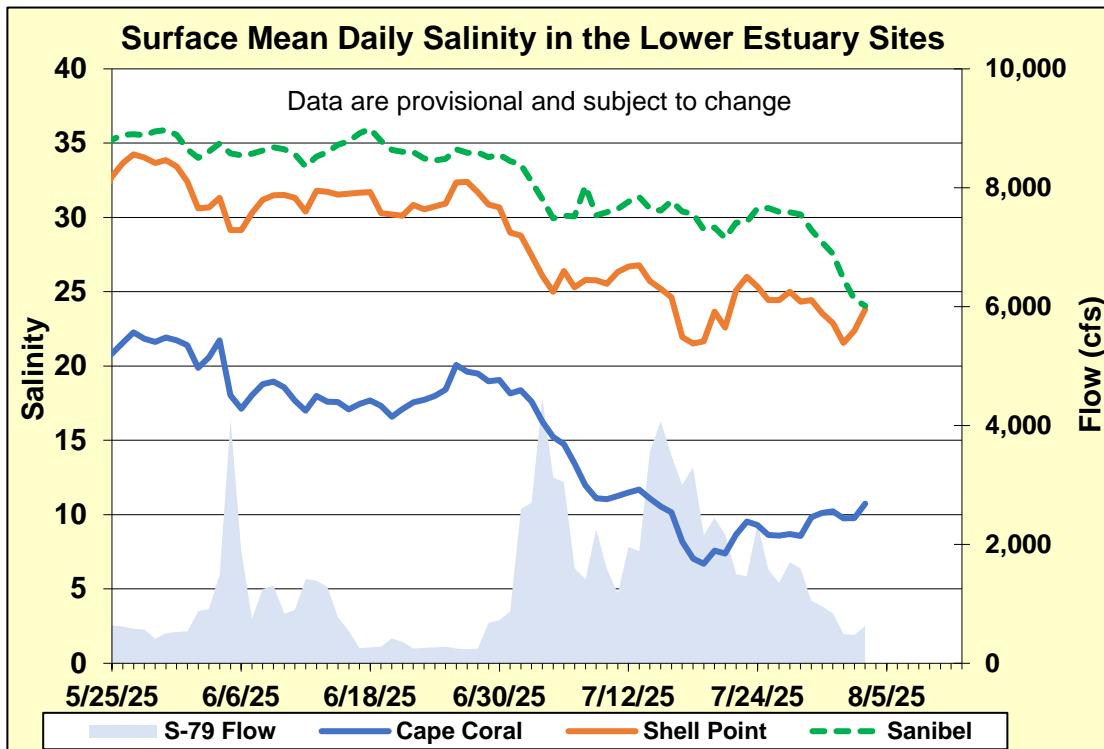


Figure ES-9. Mean daily surface salinity at lower Caloosahatchee River Estuary monitoring sites and mean daily flow at S-79.

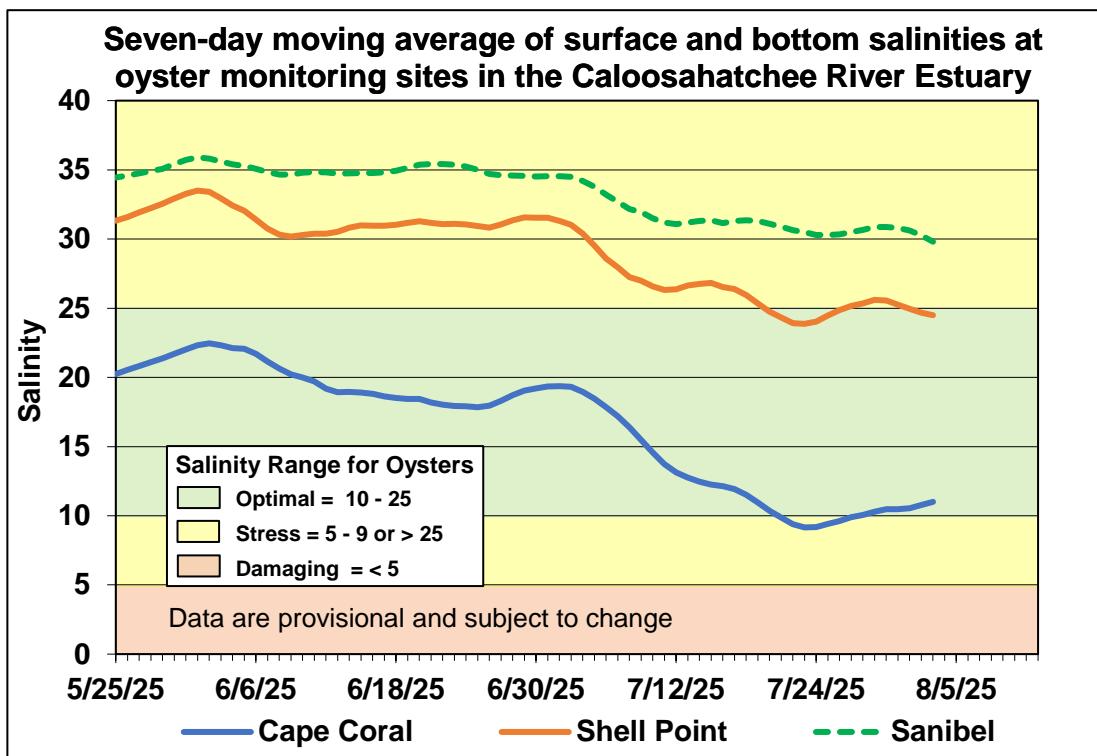


Figure ES-10. Seven-day moving average of surface and bottom salinities at Cape Coral, Shell Point, and Sanibel monitoring sites in the Caloosahatchee River Estuary.

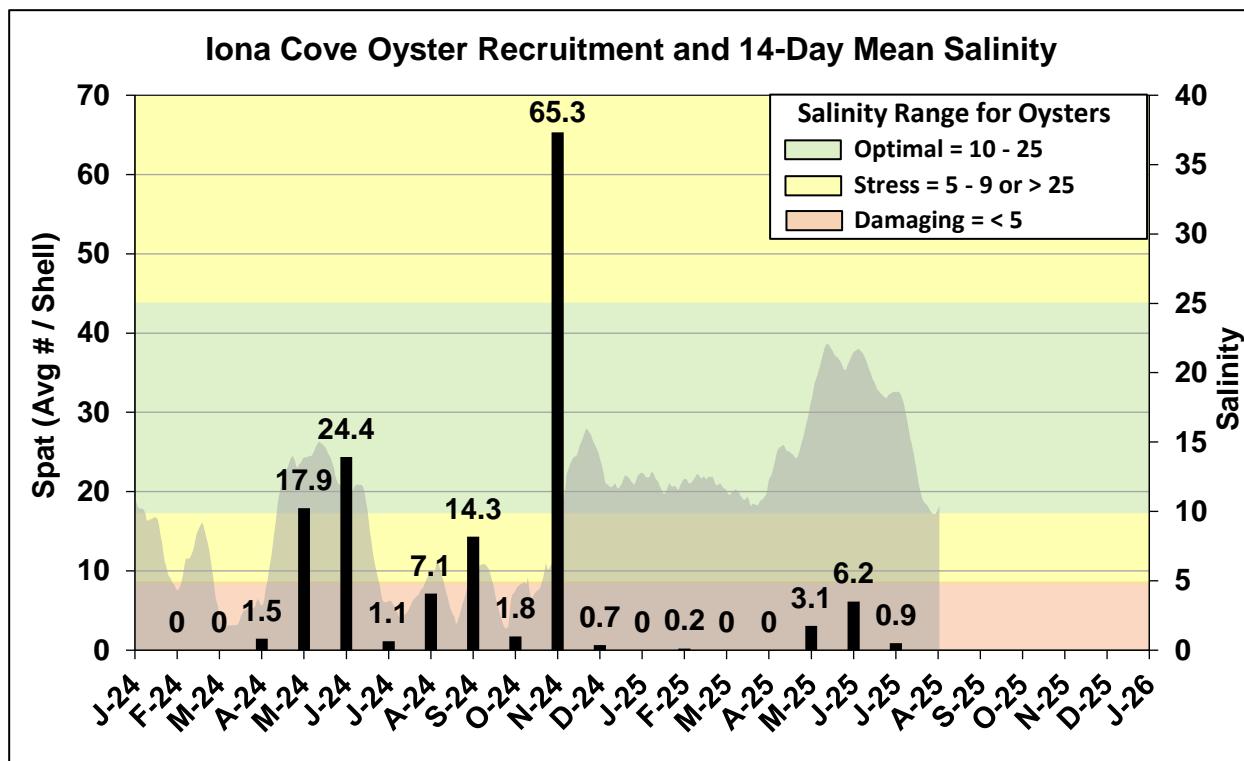


Figure ES-11. Mean oyster recruitment at the Iona Cove oyster monitoring station and 14-day mean salinity at Cape Coral.

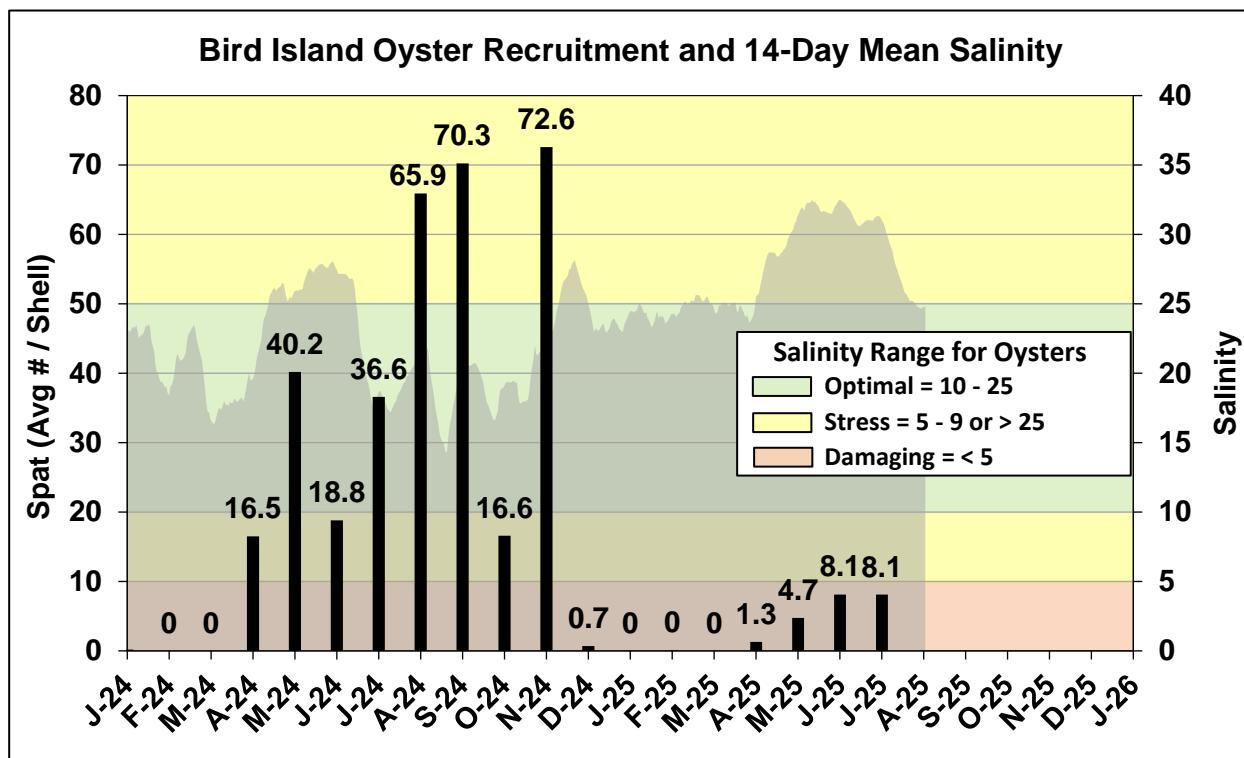


Figure ES-12. Mean oyster recruitment at the Bird Island oyster monitoring station and 14-day mean salinity at Shell Point.

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	641	0.9	0.4
B	750	641	0.5	0.3
C	1,000	641	0.3	0.3
D	1,500	641	0.3	0.3
E	2,000	641	0.3	0.3

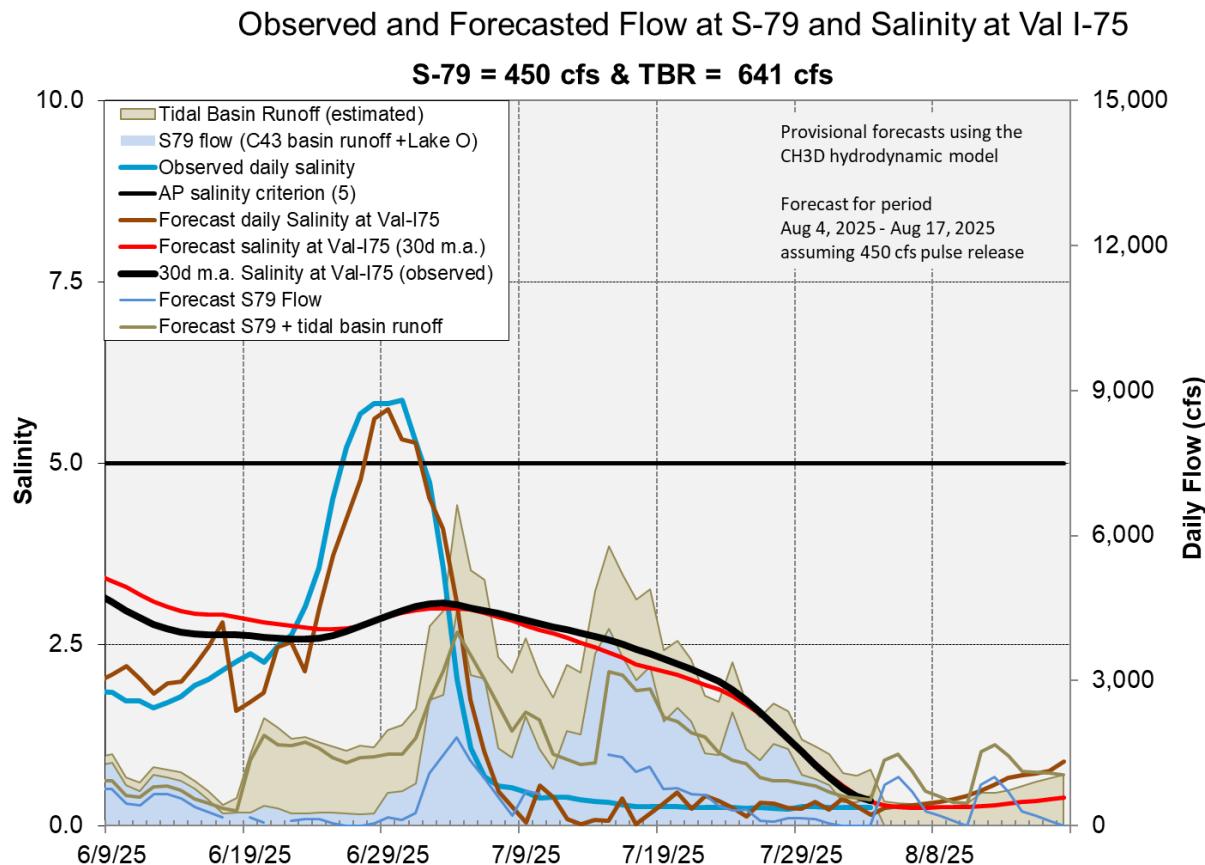


Figure ES-13. Surface salinity forecast at the Val I-75 site assuming a 450 cfs pulse release at S-79.

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 treatment cells are near target stage. The 365-day PLR for the Western Flow-way is below 1.0 g/m²/year (**Figure S-2**).

STA-1W: STA-1W Eastern Flow-way is online with restrictions for G-253 structure replacements. Treatment cells are near 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 g/m²/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, in Flow-way 3 for post-drawdown vegetation grow-in, and in Flow-way 1 for inflow canal dredging. Online treatment cells are near target stage. Vegetation in Flow-ways 2 is stressed, and in 5 is highly stressed. The 365-day PLRs for Flow-ways 1, 2, 4, and 5 are below 1.0 g/m²/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 g/m²/year (**Figure S-3**).

STA-5/6: Most treatment cells are at or near target stage while several EAV cells are below target stage. All treatment cells have highly stressed or stressed vegetation conditions. The 365-day PLRs for Flow-ways 1, 2, 6, 7, and 8 are below 1.0 g/m²/year, and the 365-day PLRs for Flow-ways 3, 4, and 5 are 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 8/03/2025): ~254,000 ac-ft
- Lake Okeechobee releases to FEBs/STAs
 - 7/28/2025 to 8/3/2025: 1,400 ac-ft
 - WY2026: ~28,800 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

Jul. 28 – Aug. 3, 2025

Includes preliminary data

	Total Inflow (acre-feet)	Total Outflow (acre-feet)
STA-1E	30	400
STA-1W	0	100
STA-2	1,750	1,980
STA-3/4	15,100	12,300
STA-5/6	1,370	200

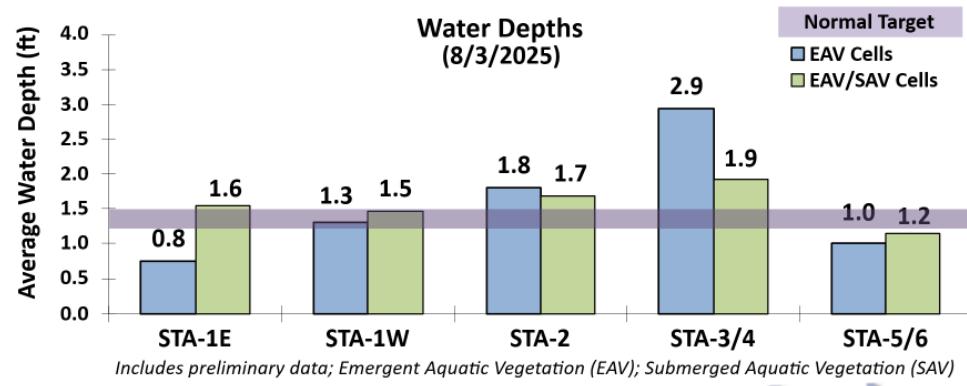


Figure S-1. STA depths and flow volumes

0 CFS Lake release capacity in Eastern Flow Path:
8/4/2025-8/10/2025

- Subject to change weekly as wet season progresses

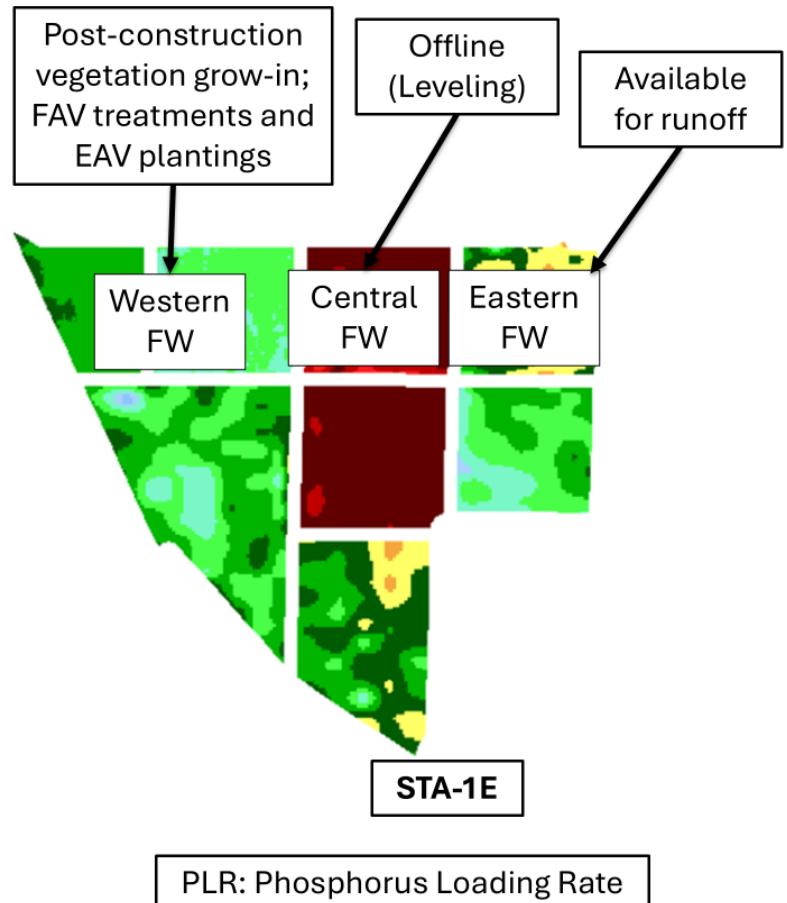
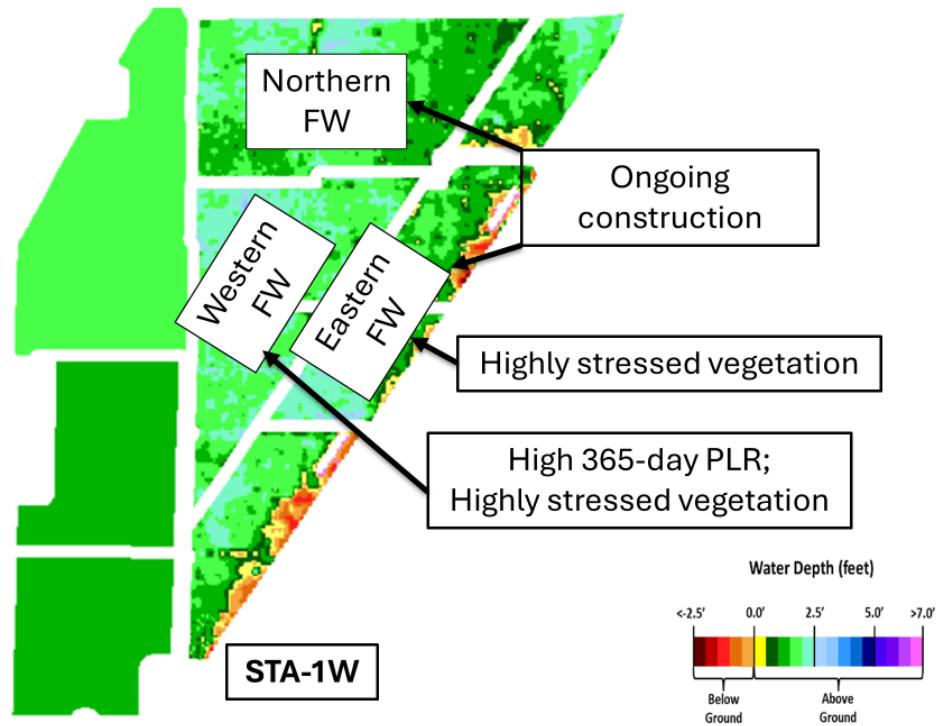


Figure S-2. Eastern Flow Path Weekly Status Report

100 CFS Lake release capacity in Central Flow Path:
8/4/2025-8/10/2025

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

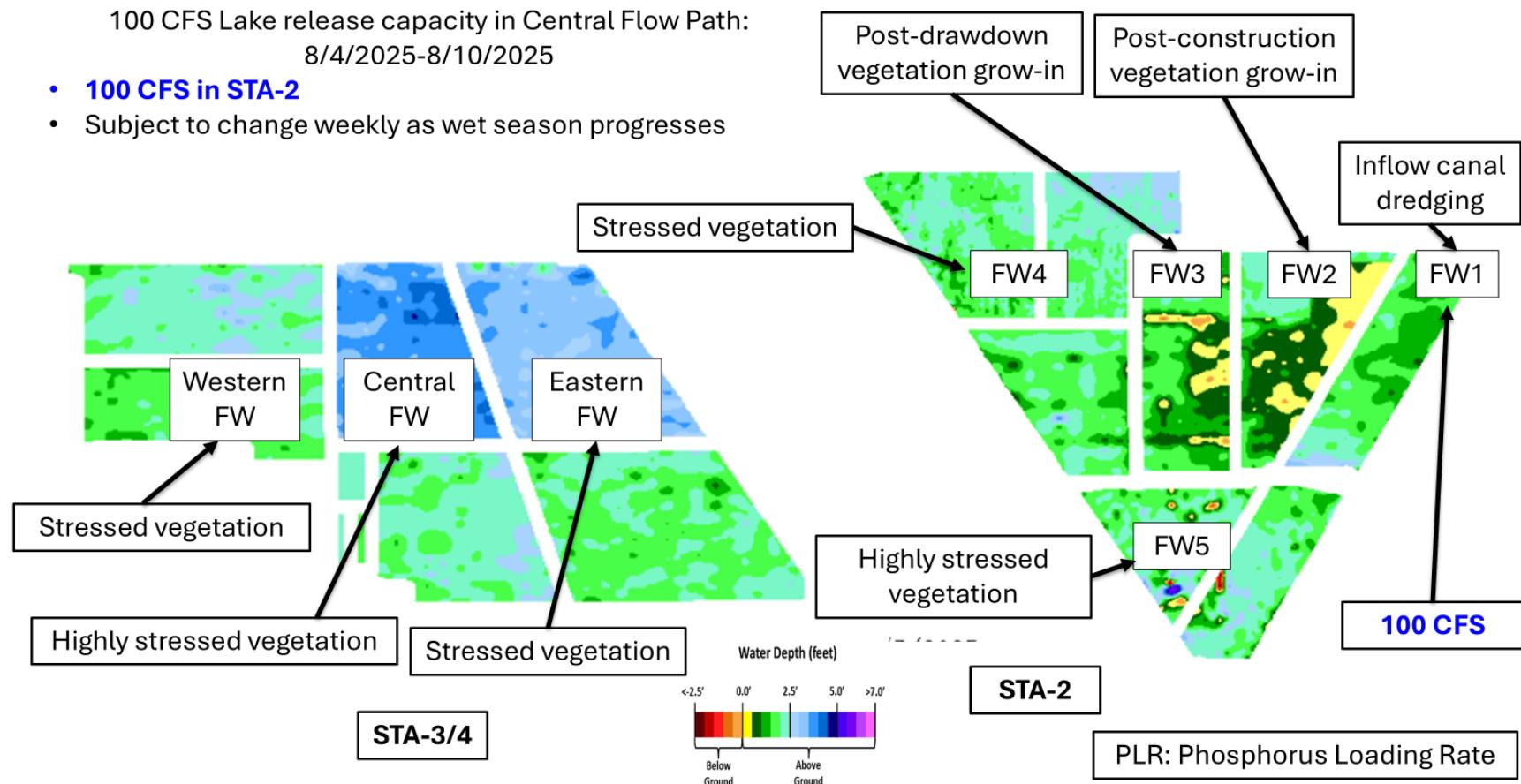


Figure S-3. Central Flow Path Weekly Status Report

0 CFS Lake release capacity in Western Flow Path:

8/4/2025-8/10/2025

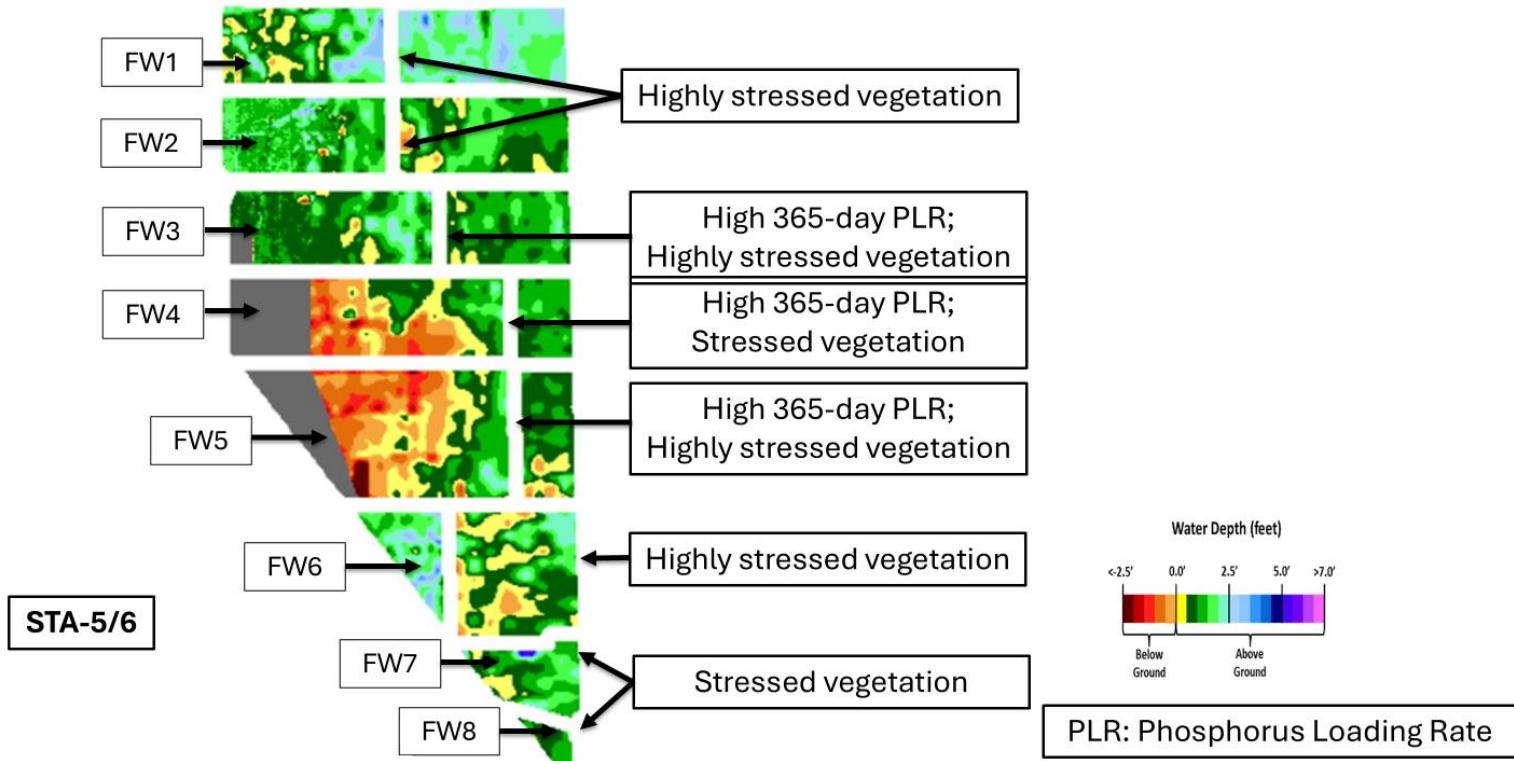


Figure S-4. Western Flow Path Weekly Status Report

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 was 0.61 feet below the rising A1 zone regulation line on Sunday, August 4, 2025. Stage at the 1-8C gauge has been declining and is below the A1 zone regulation line by 0.52 ft. WCA-2A: Stage at the 2-17 gauge has plateaued after rising quickly two weeks ago and remains at 0.58 ft above the A1 zone regulation line on Sunday. WCA-3A: The 3-gauge average remains in zone B and is decreasing and ended the week 0.82 feet below the zone A regulation line. In northern WCA-3A, stage change at Gauge 62 (NW corner) is decreasing and ended the week 0.58 feet below the Upper Schedule regulation line. See figures **EV-1** through **EV-4**.

Water Depths

The SFWDAT model output for August 4, 2025, illustrates the continuation of very dry conditions in WCA-1. WCA-2A depths have risen quickly over the last month as that basin approaches the 50th percentile in the central and southern areas. Conditions remain relatively dry for this time of year in WCA-3A South, but depths are increasing. Big Cypress Basin depths have also increased over the last two months, but dry conditions remain near Tamiami trail. Hydrologic connectivity has improved compared to one month ago in both Shark River and Taylor Sloughs. Conditions remain drier to the west but are improving. Depths remain relatively low for this time of year across the Everglades Protection Area (EPA) with portions of all the major basins at or below the 10th percentile. See figures **EV-5** through **EV-6**.

Taylor Slough and Florida Bay

Most stages decreased across Taylor Slough over the past week, with an average decrease of 0.08 feet. Changes ranged from -0.39 feet at E112 in the northern slough to +0.21 feet Craighead Pond (CP) in the southern slough (**Figure EV-7** and **Figure EV-8**). Taylor Slough water levels remain below the recent average (WY1993-2016) for this time of year by 5.3 inches compared to before the Florida Bay Initiative (starting in 2017), a decrease of 1.1 inches relative to last week. The CP and Taylor Slough Bridge (TSB) stages remain below the estimated average for 1900 by 0.94 and 2.38 feet, respectively.

Average Florida Bay salinity was 37.8, an increase of 0.6 from last week. Salinity changes ranged from -0.5 at Buoy Key (BK) in the western region to +1.6 at Whipray Basin (WB) in the central region (**Figure EV-7**). Salinity is above the estimated average for 1900 and at or above the WY2001-2016 Interquartile Range (IQR) 75th percentile in all three regions. Salinity is at the hypersalinity threshold in the central and western regions (**Figure EV-9**). Average Florida Bay salinity remains above its recent average (WY1993-2016) for this time of year by 7.5, an increase of 0.2 relative to last week's comparison.

Salinity at the Taylor River (TR) station in the mangrove zone (tracked for the Florida Bay MFL) was 31.8. The 30-day moving average was 31.0 (**Figure EV-10**), an increase of 0.2 from last week. TR salinity has now been above 30 for 18 days, and an MFL exceedance

will occur if it remains above 30 for 30 consecutive days. The 365-day moving sum of flow from the five major creeks (McCormick Creek, Taylor River, Mud Creek, Trout Creek, West Highway Creek) was 201,668 acre-feet, a decrease of 5,207 acre-feet from last week (**Figure EV-10**).

Average rainfall across Taylor Slough and Florida Bay was approximately 0.25 inches over the past week, based on the 18 gauges used for this report. Rainfall ranged from 0.00 inches at seven stations to 1.59 inches at P37 in the southern slough (**Figure EV-11**). Wind directions and speeds in Florida Bay ranged from 0.2 mph E on July 29th to 13.0 mph NE on July 28th (**Figure EV-11**).

Average daily flow from the five major creeks totaled -72 acre-feet, with net negative flows over the past week. Total daily creek flow ranged from -1,002 acre-feet on July 29th to 805 acre-feet on August 2nd (**Figure EV-12**). Average daily flow was 3,698 acre-feet below estimated historical levels (circa 1900).

Implications for water management.

The EPA continues to experience unseasonably dry conditions. This is highlighted by a wildfire that occurred in WCA-2A north over the past week, and the fact that most of the EPA is currently showing a high vulnerability index for wildfires. In WCA-2A, water depths have increased to near the 50th percentile in the south but remain dry in the north for this time of year. Without significant rainfall, another year of short hydroperiods in the central Everglades could limit prey production necessary for wading bird nesting success during the upcoming dry season (which would be the fifth year in a row of low productivity). Florida Bay salinity is now within the harmful ecological threshold in both the central and western regions and near or above the top of the IQR in each region, highlighting unusually high salinities compared to previous years. The bay is also experiencing high temperatures, reaching 95 degrees in some regions, which may also exacerbate ecologically harmful conditions. Florida Bay will continue to benefit from freshwater input to the system 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	0.86	-0.09
WCA-2A	1.11	+0.06
WCA-2B	0.29	-0.21
WCA-3A	0.53	-0.07
WCA-3B	2.02	-0.05
ENP	1.30	-0.06

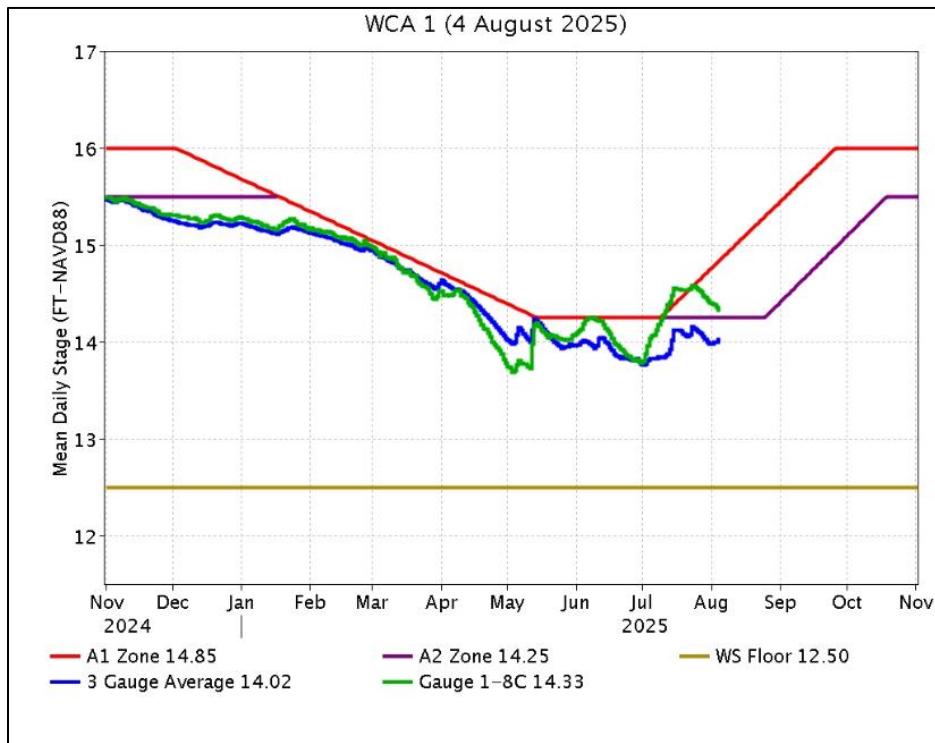


Figure EV-1. WCA-1 stage hydrographs and regulation schedule.

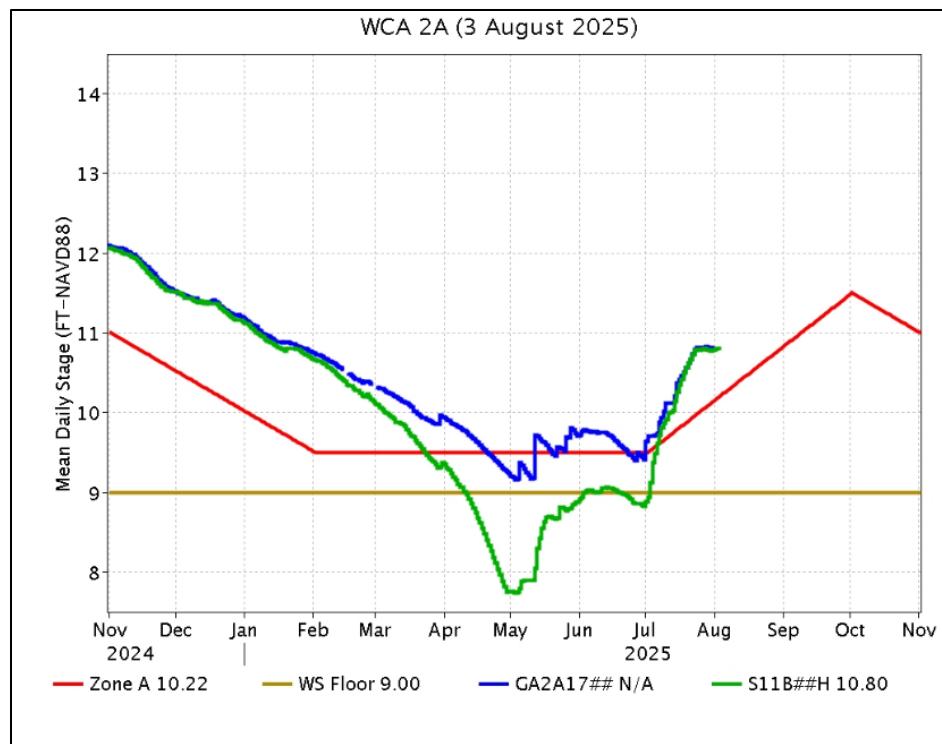


Figure EV-2. WCA-2A stage hydrographs and regulation schedule.

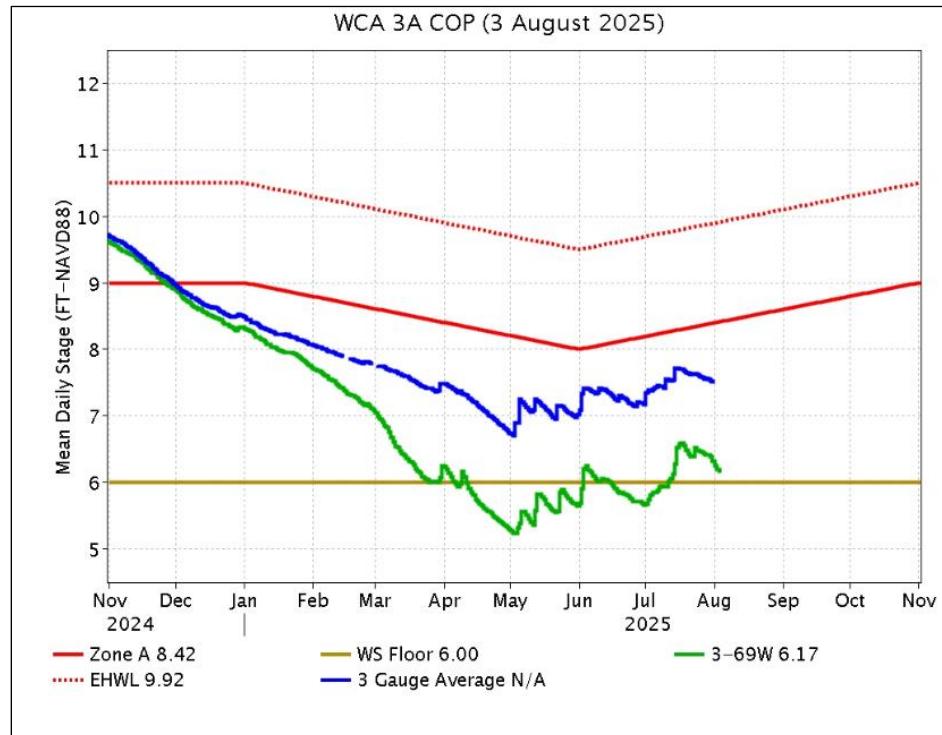


Figure EV-3. WCA-3A stage hydrographs (three-gauge average, 3-69W) and regulation schedule.

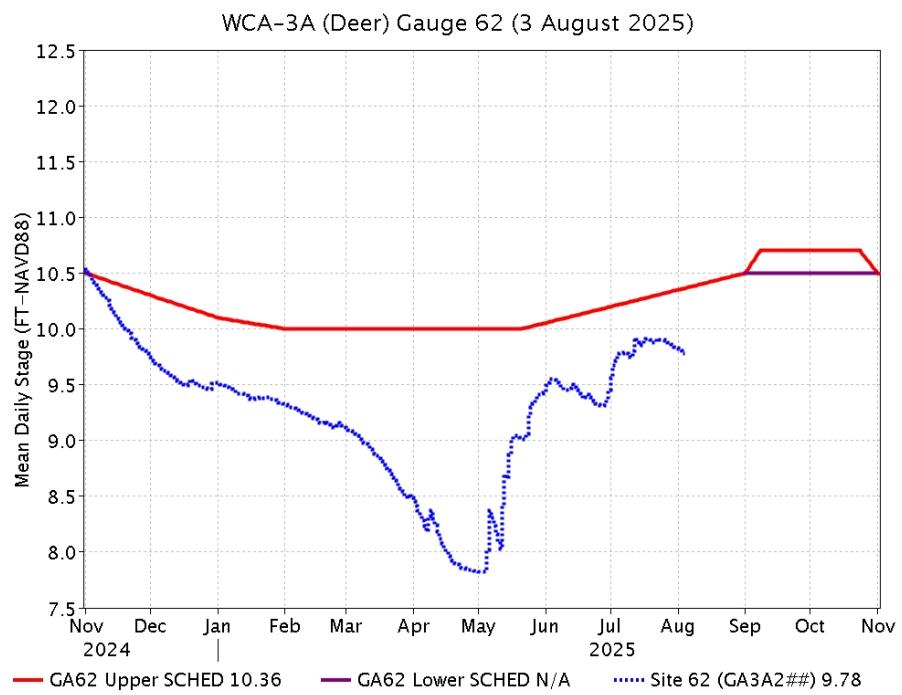


Figure EV-4. WCA-3A stage hydrograph (Deer gauge; Site 62) and GA62 regulation schedule.

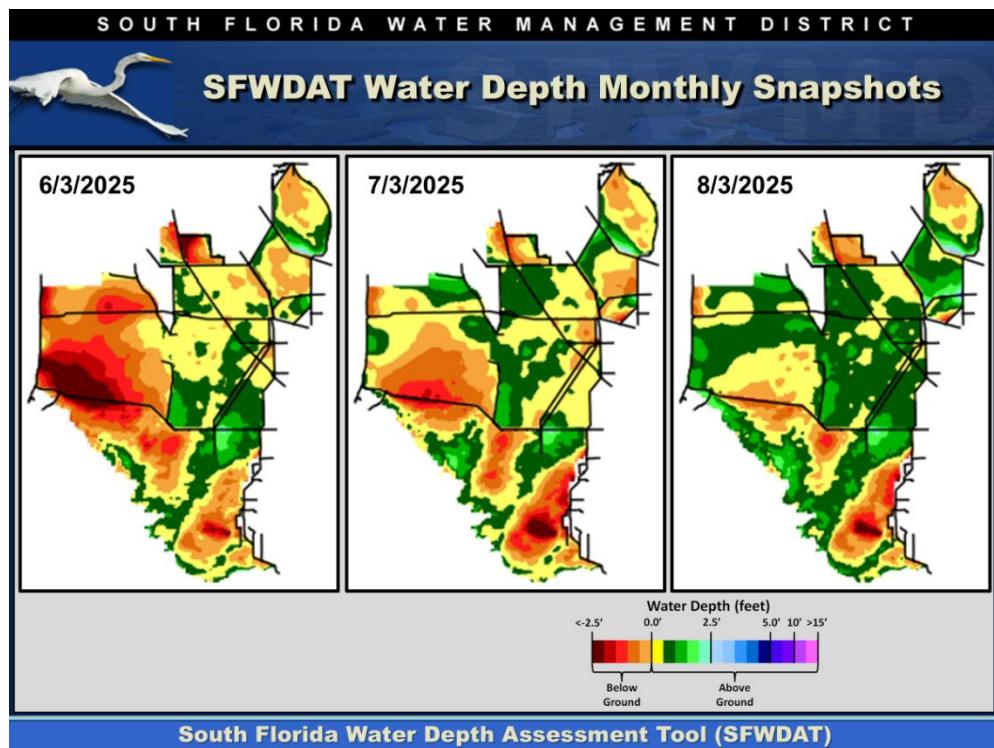


Figure EV-5. Everglades water depths from two months ago (left), one month ago (center) and present (right), based on SFWDAT.

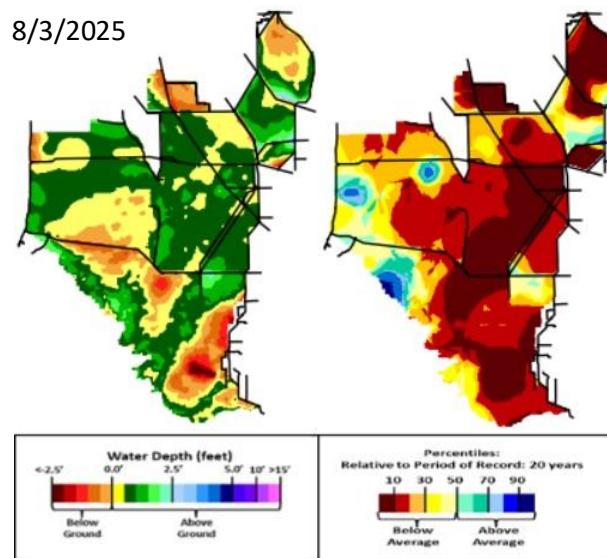


Figure EV-6. Present water depths (August 3, 2025) compared to the day of year relative to average (percentile) over the previous 20 years.

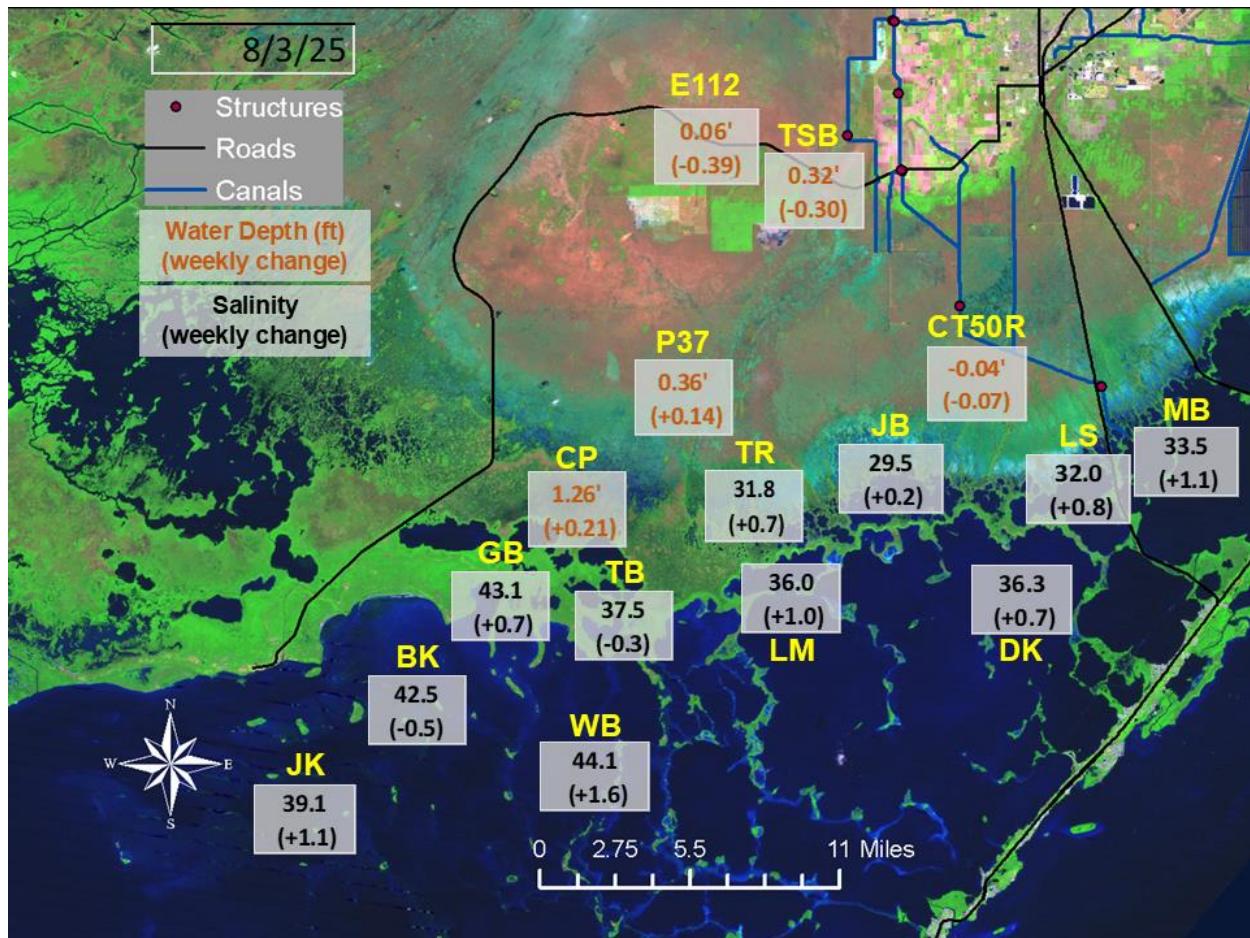


Figure EV-7. Taylor Slough water depths and Florida Bay salinities with changes since a week ago.

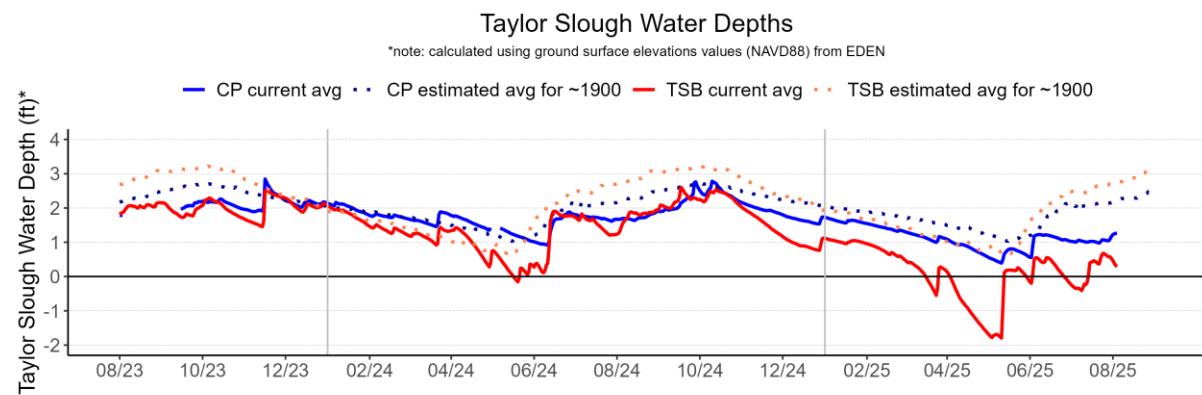


Figure EV-8. Taylor Slough water depth time series for Taylor Slough Bridge (TSB; northern slough) and Craighead Pond (CP; southern slough).

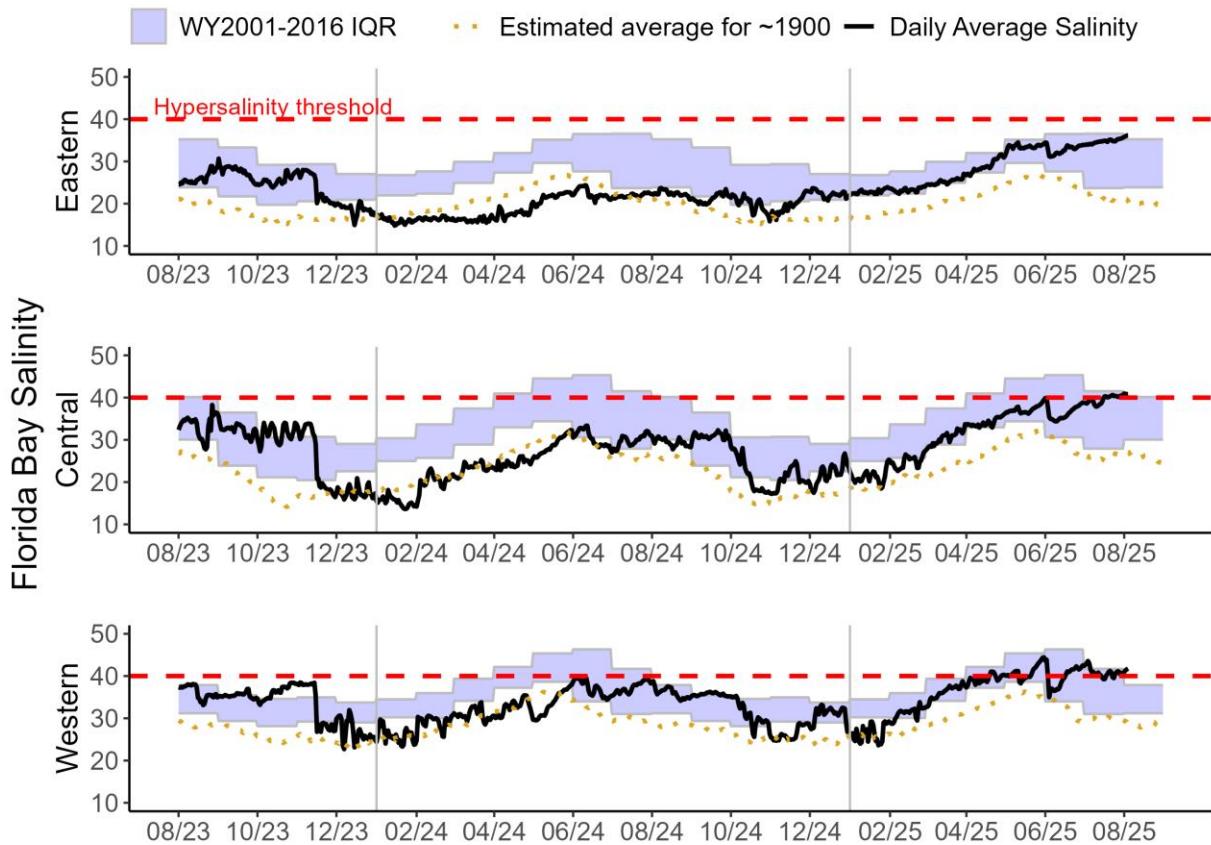


Figure EV-9. Eastern (top panel), Central (middle panel) and Western (bottom panel) Florida Bay daily average salinities with WY2001-2016 interquartile (25-75 percentile) ranges (IQR) and estimated historical daily average salinities. The hypersalinity threshold indicates the level at which salinities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

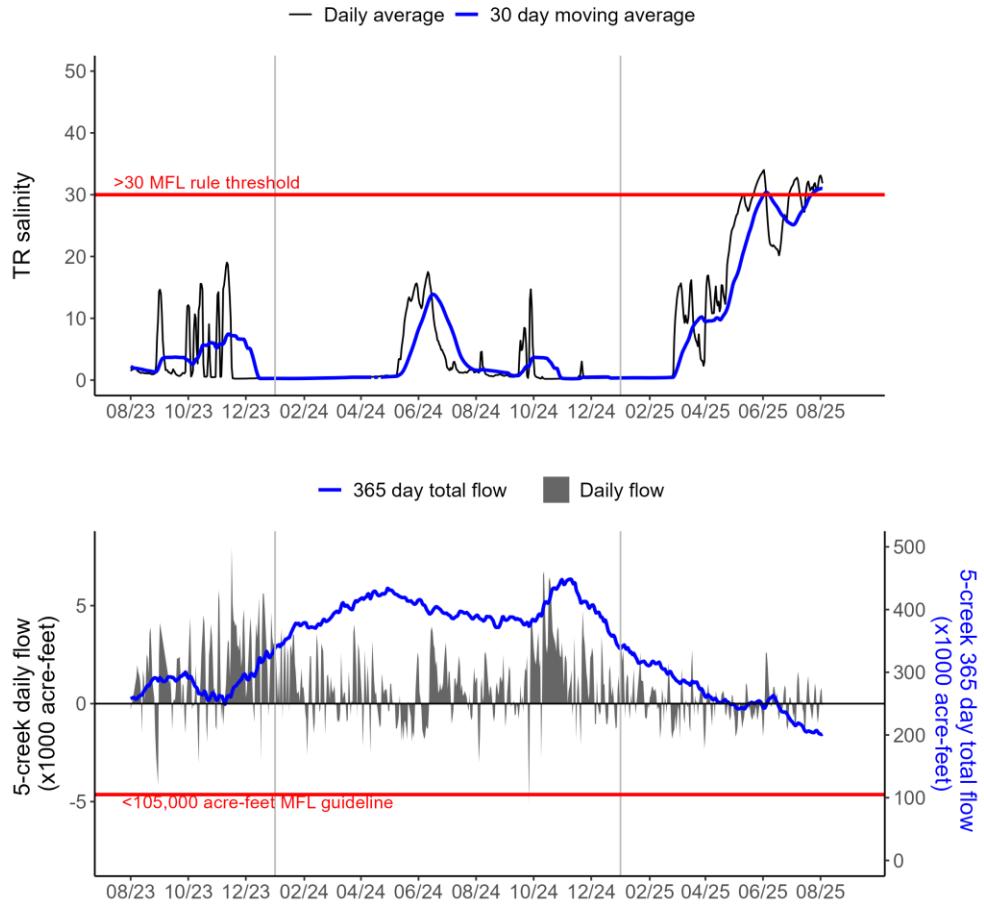


Figure EV-10. Salinity at Taylor River (TR; top) and creek inflow to Florida Bay (bottom) from the five major creeks (McCormick Creek, Taylor River, Mud Creek, Trout Creek, and West Highway Creek). The 30-day moving average salinity and 365-day total creek flow are tracked for the Florida Bay MFL criteria.

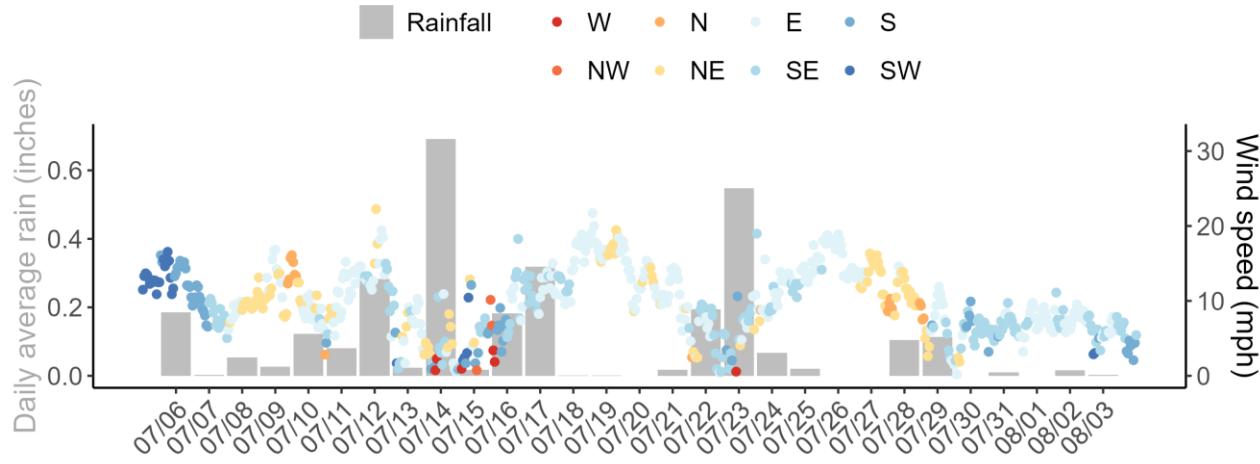


Figure EV-11. Daily average rain across Taylor Slough and Florida Bay, along with hourly average wind speed and direction (measured at Long Key) in Florida Bay over the past four weeks.

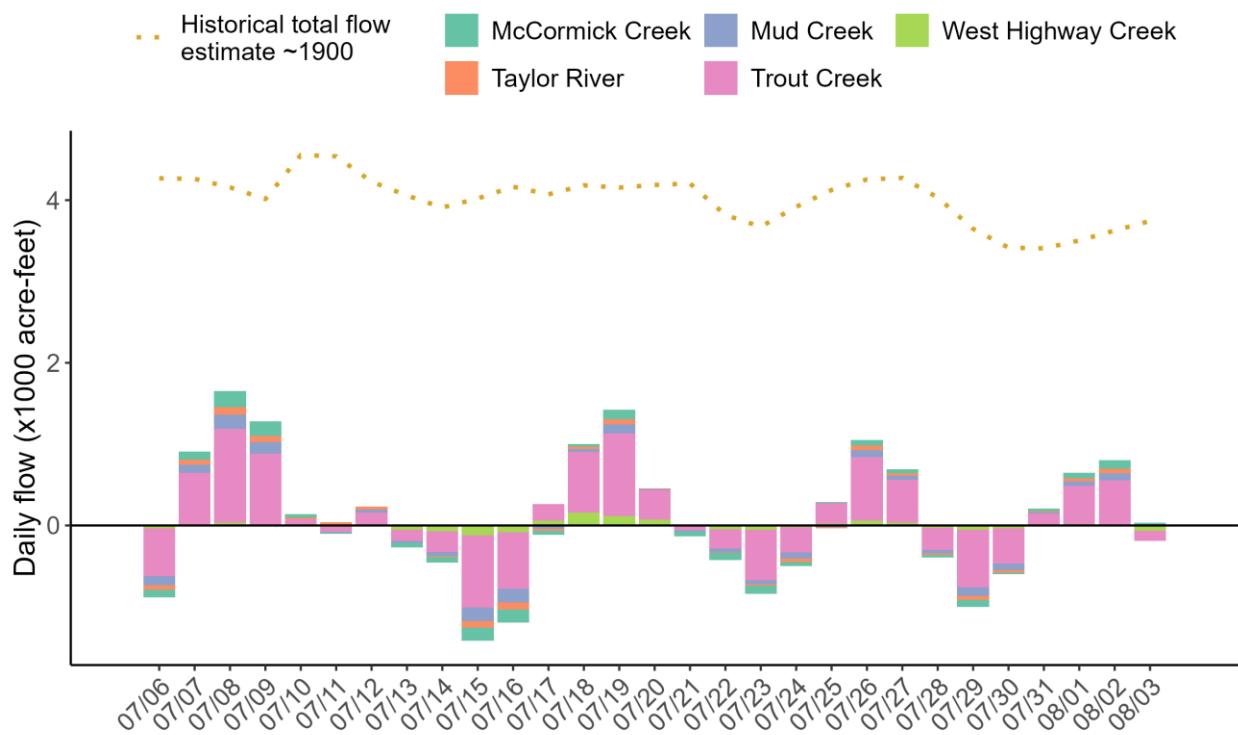


Figure EV-12. Daily average creek flow summed between five creeks with estimated historical daily flow over the past four weeks.

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

SFWMD Everglades Ecological Recommendations, August 4, 2025 (red is new)			
	Weekly change	Recommendation	Reasons
WCA-1	Stage decreased by 0.09 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 0.06 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 decreased by 0.21 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 decreased by 0.03 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 decreased by 0.10 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 decreased by 0.11 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 0.04 feet	No recession and ascension rate no faster than 0.18 feet per week or 0.36 feet per two weeks.	
WCA-3B	Stage decreased by 0.05 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 0.06 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 -0.39 feet to +0.21 feet	Move water southward as possible.	When available, provide freshwater to promote water movement.
FB- Salinity	Salinity changes ranged from -0.5 to +1.6	Move water southward as possible.	When available, provide freshwater to promote water movement.