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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: December 10, 2025

SUBJECT: Weekly Environmental Conditions for Systems Operations

Summary

Weather Conditions and Forecast

Wednesday should feature noticeably drier conditions than the previous few days, with lingering light showers or drizzle confined to parts of the east coast. By Wednesday night, an upper-air disturbance will begin digging southward over north Florida, sending another cold front into the region. This secondary front will reinforce the dry pattern, supporting rain-free conditions on Thursday and Friday. The forecast confidence decreases heading into the weekend as the model guidance diverges on the evolution of the secondary front after it clears Florida. The current Saturday and Sunday Quantitative Precipitation Forecasts (QPFs) show a slight increase in rainfall south of Lake Okeechobee, with a particular emphasis on the lower east coast. For the 7-day period ending next Tuesday morning, below-average total SFWMD rainfall remains the most likely outcome.

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 Lakes Kissimmee-Cypress-Hatchineha followed the Headwaters Revitalization Schedule (HRS) Increment 1 Temporary Deviation Discharge Plan. Weekly average discharge on December 7, 2025, was 400 cfs at S-65 and 350 cfs at S-65A. Mean weekly water depth on the Kissimmee River floodplain decreased by 0.15 feet to 0.33 feet. The weekly average concentration of dissolved oxygen in the Kissimmee River increased from 5.3 mg/L the previous week to 6.4 mg/L, which is above both the potentially lethal level of 1.0 mg/L and the stressful level of 2.0 mg/L for Florida bass and other species (**Figure KB-6**).

Lake Okeechobee

Lake Okeechobee stage was 12.33 feet NAVD88 (13.63 ft NGVD29) on December 7, 2025, which was 0.03 feet lower than the previous week and 0.29 feet lower than a month ago. Average daily inflows (excluding rainfall) were 550 cfs compared to 1,200 cfs the previous week. Average daily outflows (excluding evapotranspiration) increased from 1,000 cfs the previous week to 1,170 cfs. The most recent non-obscured satellite image

from December 5, 2025, NOAA's Harmful Algal Bloom Monitoring System suggests moderate cyanobacteria potential in the southern and western regions of the lake.

Estuaries

Total inflow to the St. Lucie Estuary averaged 181 cfs over the past week with no flow coming from Lake Okeechobee. Mean salinities increased at all sites in the estuary 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 451 cfs over the past week with flows of 238 cfs from Lake Okeechobee. Over the past week, surface salinities decreased at S-79 and increased at the remaining sites within the estuary. Mean salinities were in the optimal range (0-10) for tape grass at S-79 and in the stressed range at Val I-75 and Ft. Myers. Salinities were in the optimal range (10-25) for adult oysters at Cape Coral and in the upper stressed range (>25) at Shell Point and Sanibel.

Stormwater Treatment Areas

For the week ending December 7th, 2025, 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 32,400 ac-feet. The total amount of inflows to the STAs in WY2026 is approximately 532,500 ac-feet. Online STA treatment cells are at or above target stage. STA-1E Central Flow-way is offline for construction activities. STA-1W Eastern Flow-way is offline for vegetation management activities. Operational restrictions are in effect in STA-1E Western Flow-way, STA-2 Flow-ways 2, 3 and 4, and STA-3/4 Eastern Flow-way for vegetation management activities. This week, there is no capacity for Lake releases in the STAs.

Everglades

The Everglades Protection Area (EPA) received below average precipitation last week. Water depths decreased across most basins, except WCA-2B which increased slightly. Recession rates were generally characterized as good last week with lower rates helping to conserve water within the Everglades. Southern WCA-2A remains unseasonably deep, while most of WCA-3A continues to be in the 10th percentile, as it has for much of the water year. Below-average depths in the central Everglades are limiting aquatic prey production and the predators that depend on them, including wading birds and herpetofauna. Starting the dry season with very low water in WCA-3A likely means wading bird nesting will be below average for the fifth consecutive year, and prolonged dry conditions may increase the risk of damaging wildfire, peat oxidation, and ridge/slough degradation, especially if low rainfall conditions occur as forecasted with La Niña climate conditions. Taylor Slough stages decreased slightly last week but remain just above recent averages for this time of year. Average Florida Bay salinities increased and remained above recent averages for this time of year.

Supporting Information

Kissimmee Basin

Upper Kissimmee

On December 7, 2025, mean daily lake stages were 57.1 feet NAVD88 (0.1 feet above schedule) in East Lake Toho, 54.0 feet NAVD88 (0.2 feet above schedule) in Lake Toho, and 48.5 feet NAVD88 (3.3 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 December 7, 2025, mean weekly discharge was 400 cfs at S-65 and 350 cfs at S-65A. Mean weekly discharge from the Kissimmee River was 660 cfs at S-65D and 520 cfs at S-65E (**Table KB-2**). Mean weekly headwater stages were 45.2 feet NAVD88 at S-65A and 29.8 feet NAVD88 at S-65D. Mean weekly river channel stage decreased by 2.3 feet from the previous week to 32.3 feet NAVD88 (**Figure KB-4**). Mean weekly water depth on the Kissimmee River floodplain decreased by 0.15 feet to 0.33 feet (**Table KB-2, Figure KB-5**). The weekly average concentration of dissolved oxygen in the Kissimmee River increased from 5.3 mg/L the previous week to 6.4 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 B4, target flows of 300 cfs at S-65A. When stage increases into Zone B3, 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)	
							12/7/25	11/30/25
Lakes Hart and Mary Jane	S-62	LKMJ	4	60.0	R	59.9	0.1	0.0
Lakes Myrtle, Preston and Joel	S-57	S-57	19	61.0	R	60.9	0.1	0.0
Alligator Chain	S-60	ALLI	1	63.0	R	63.0	0.0	0.0
Lake Gentry	S-63	LKGT	1	60.5	R	60.4	0.1	0.0
East Lake Toho	S-59	TOHOE	6	57.1	R	57.0	0.1	0.0
Lake Toho	S-61	TOHOW S-61	15	54.0	R	53.8	0.2	0.1
Lakes Kissimmee, Cypress and Hatchineha	S-65	KUB011 LKIS5B	400	48.5	T	51.8	-3.3	-3.2

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.

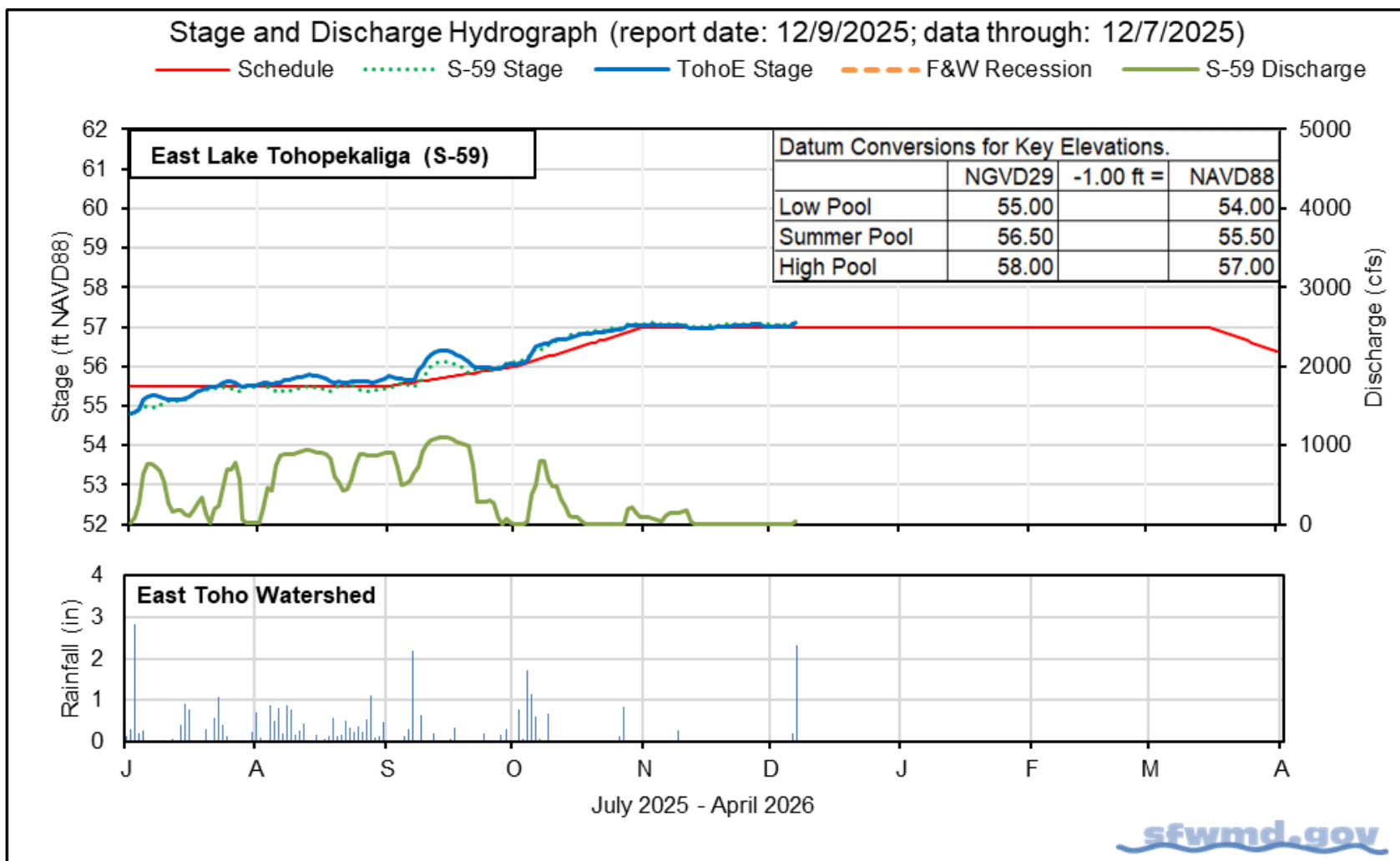


Figure KB-1. East Lake Toho regulation schedule, stage, discharge, and rainfall.

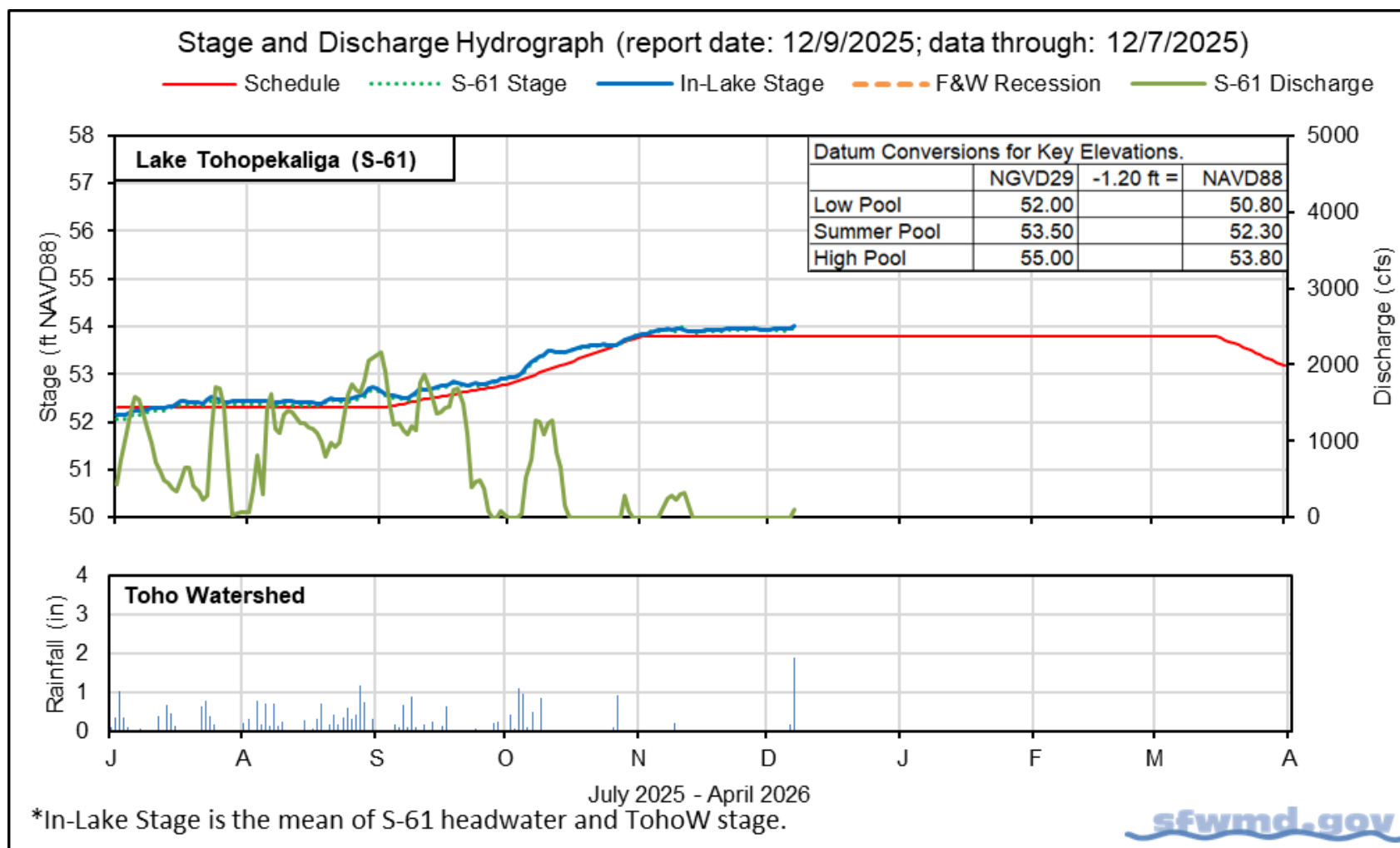


Figure KB-2. Lake Toho regulation schedule, stage, discharge, and rainfall.

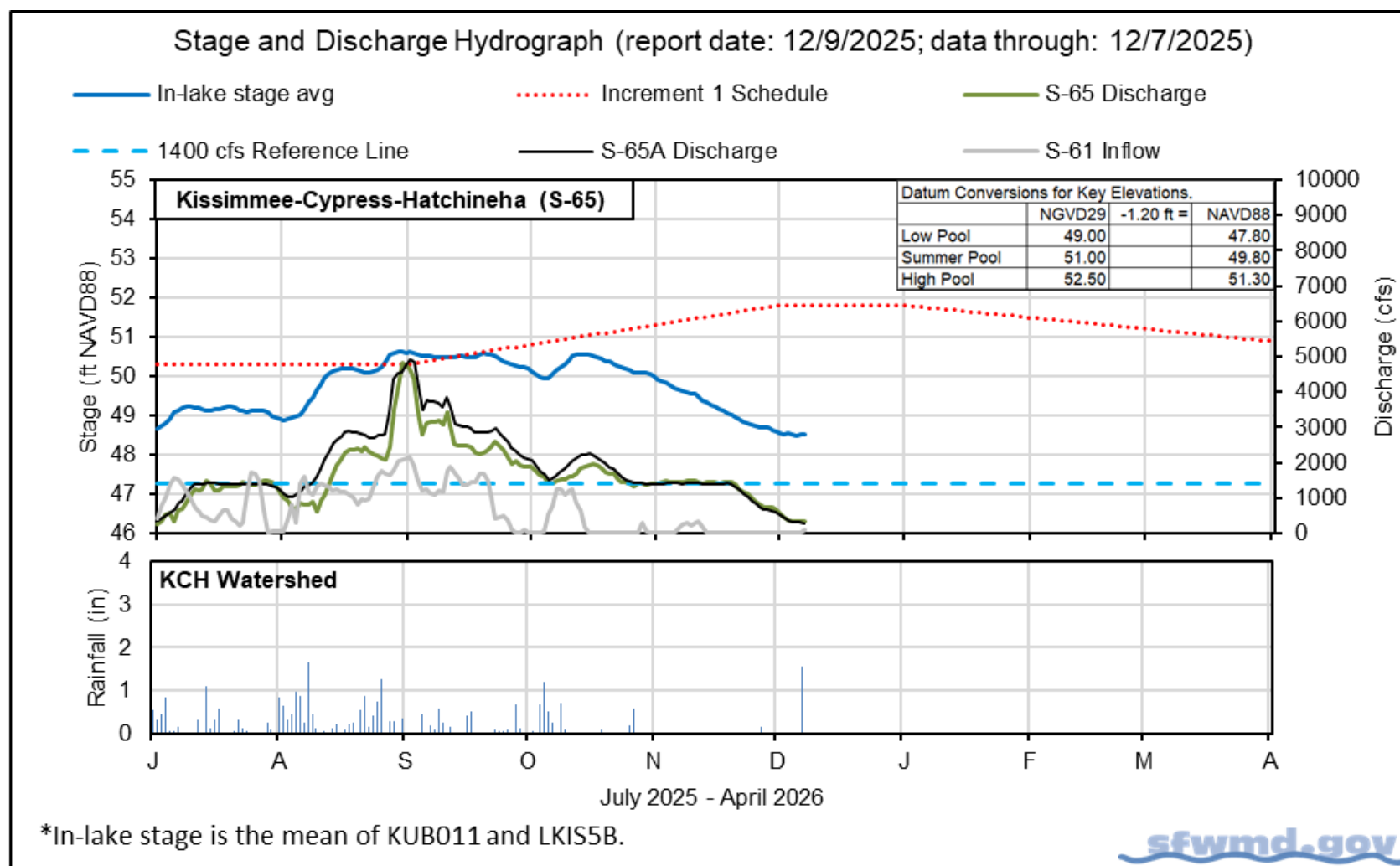


Figure KB-3. Lakes Kissimmee, Cypress and Hatchineha regulation schedule, stage, discharge, and rainfall.

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			
		12/7/25	12/7/25	11/30/25	11/23/25	11/16/25
Discharge	S-65	330	400	790	1,300	1,400
Discharge	S-65A ^a	300	350	730	1,300	1,400
Headwater Stage (feet NAVD88)	S-65A	45.1	45.2	45.2	45.1	45.2
Discharge	S-65D ^b	440	660	1,300	1,400	1,500
Headwater Stage (feet NAVD88)	S-65D ^c	25.3	29.8	32.1	32.6	32.6
Discharge (cfs)	S-65E ^d	330	520	1,200	1,300	1,400
Discharge (cfs)	S-67	0	0	0	0	0
Dissolved Oxygen (mg/L) ^e	Phase I, II/III river channel	6.8	6.4	5.3	6.1	5.8
River channel mean stage (feet NAVD88) ^f	Phase I river channel	31.4	32.3	34.6	35.4	35.5
Mean depth (feet) ^g	Phase I & II/III floodplain	0.22	0.33	0.48	0.57	0.61

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.

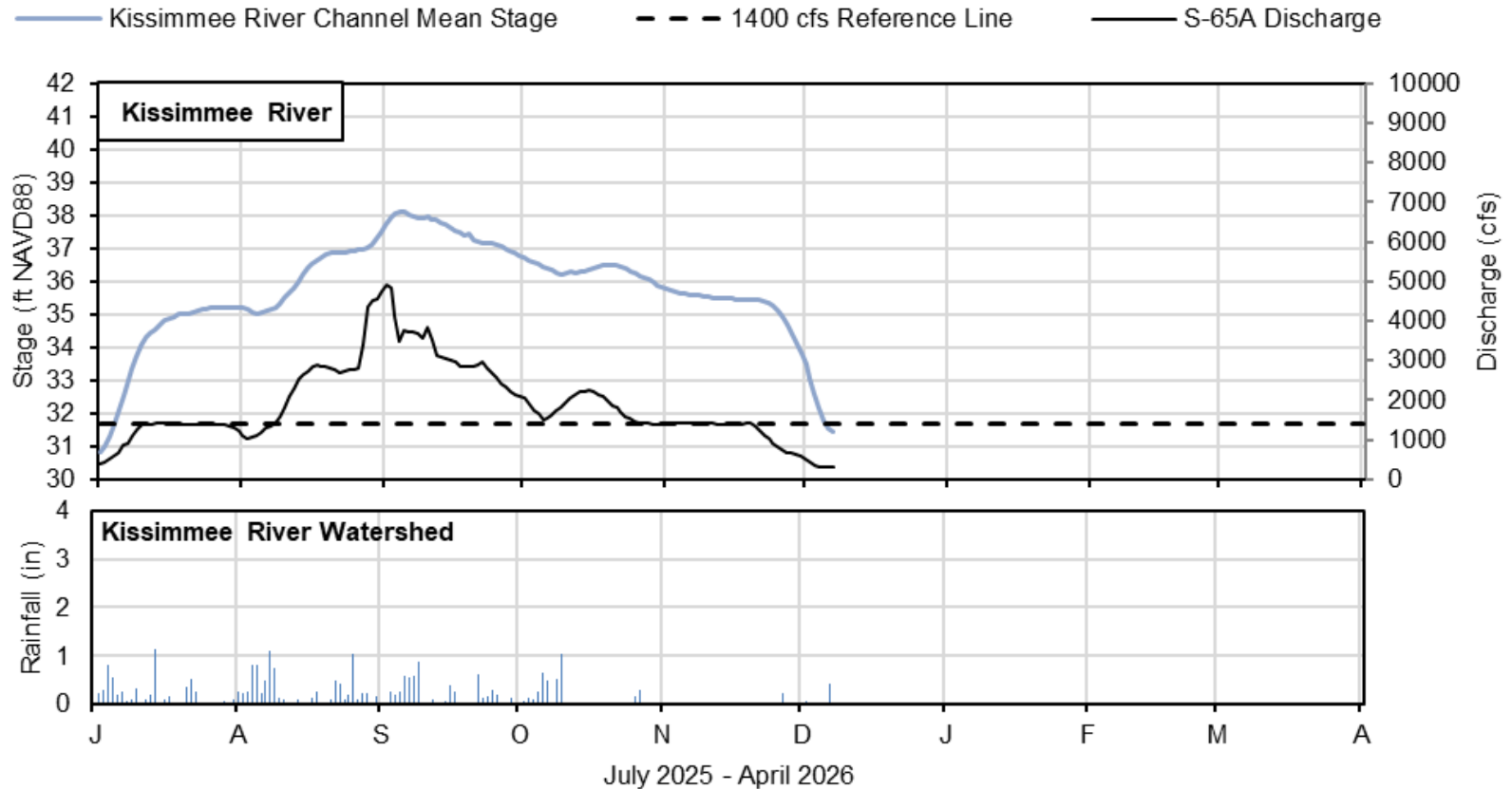
d. Combined discharge from S-65E and S-65EX1.

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: 12/9/2025; data through: 12/7/2025)



*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.

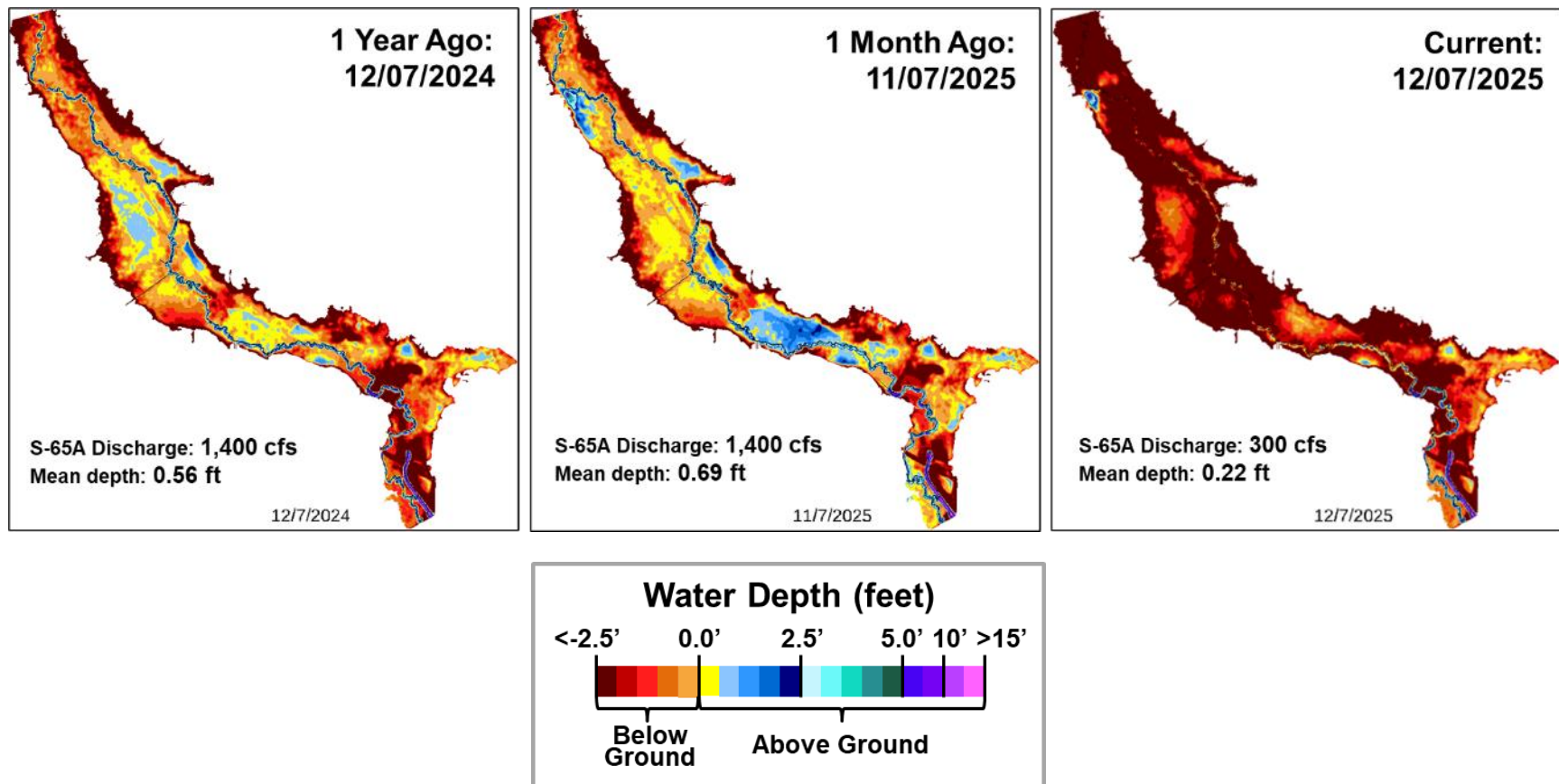
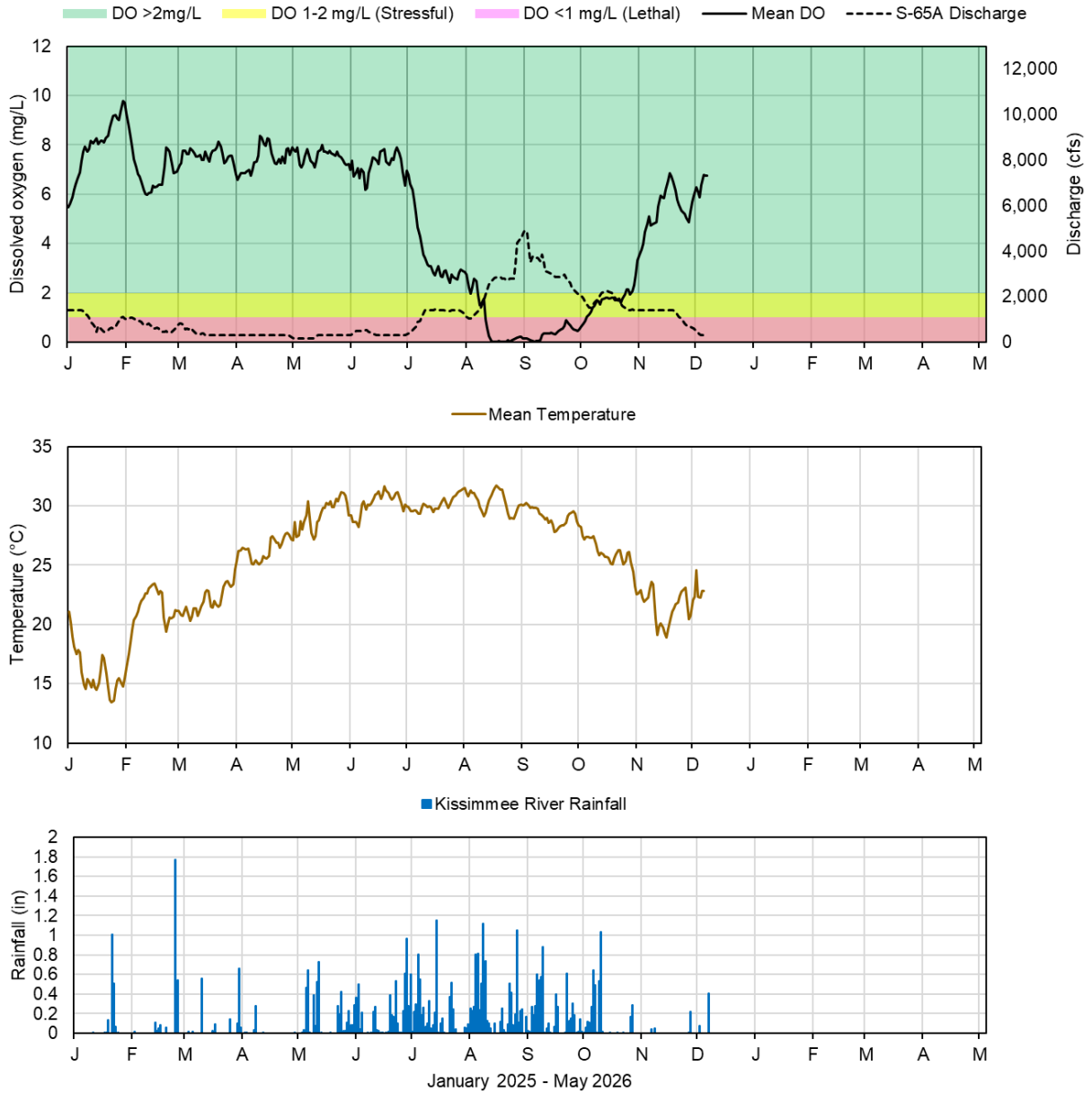


Figure KB-5. Phase I-II-III area Kissimmee River floodplain water depths (from left to right) one year ago, one month ago, and current.



Report Date: 12/9/2025; data are through: 12/7/2025

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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

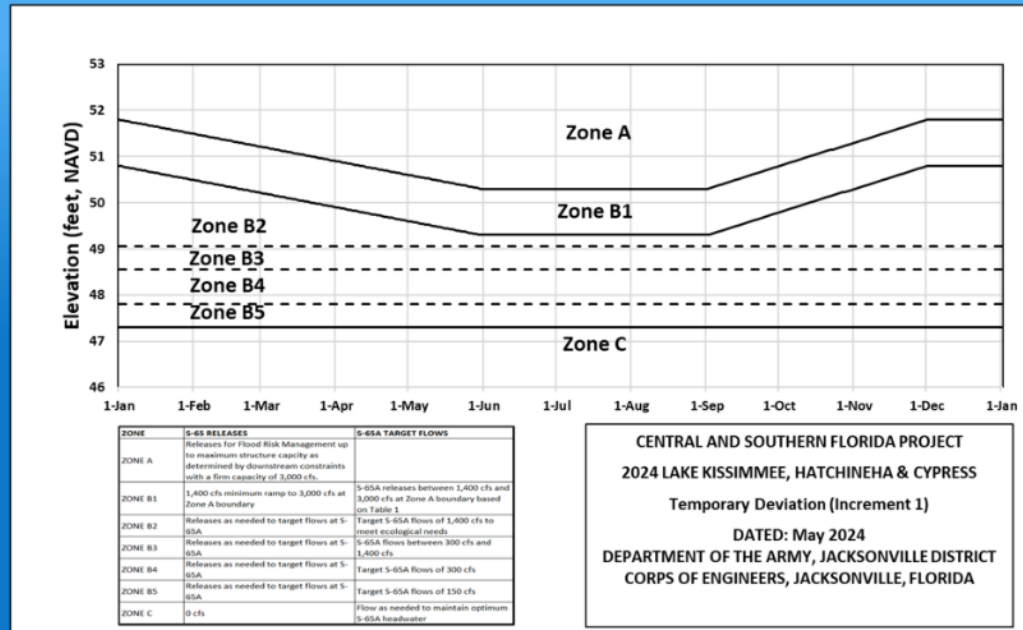
ZONE	S-65 RELEASES	S-65A TARGET FLOWS
ZONE A	Releases for Flood Risk Management up to maximum structure capacity as determined by downstream constraints with a firm capacity of 3,000 cfs.	
ZONE B1	1,400 cfs minimum ramp to 3,000 cfs at Zone A boundary	S-65A releases between 1,400 cfs and 3,000 cfs at 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 12.33 feet NAVD88 (13.63 ft NGVD29) on December 7, 2025, which was 0.03 feet lower than the previous week and 0.29 feet lower than a month ago (**Figure LO-1**). Lake stage is in Zone D of the regulation schedule (**Figure LO-2**) and is 0.37 feet below the recovery ecological envelope (**Figure LO-3**). According to NEXRAD, 0.61 inches of rain fell directly over the lake during the previous week, and 0.77 inches were lost to evapotranspiration.

Average daily inflows (excluding rainfall) declined to 500 cfs from 1,200 cfs the previous week. The highest inflows came from the Kissimmee River (520 cfs via S-65E(X1)). Average daily outflows (excluding evapotranspiration) increased to 1,170 cfs from 1,000 cfs the previous week, most of which went south through the S-350 structures (610 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 December 5, 2025, NOAA's Harmful Algal Bloom Monitoring System suggests continued moderate cyanobacteria potential in the southern and western regions of the lake (**Figure LO-6**).

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

1 Month Ago:
11/07/2025

Current:
12/07/2025

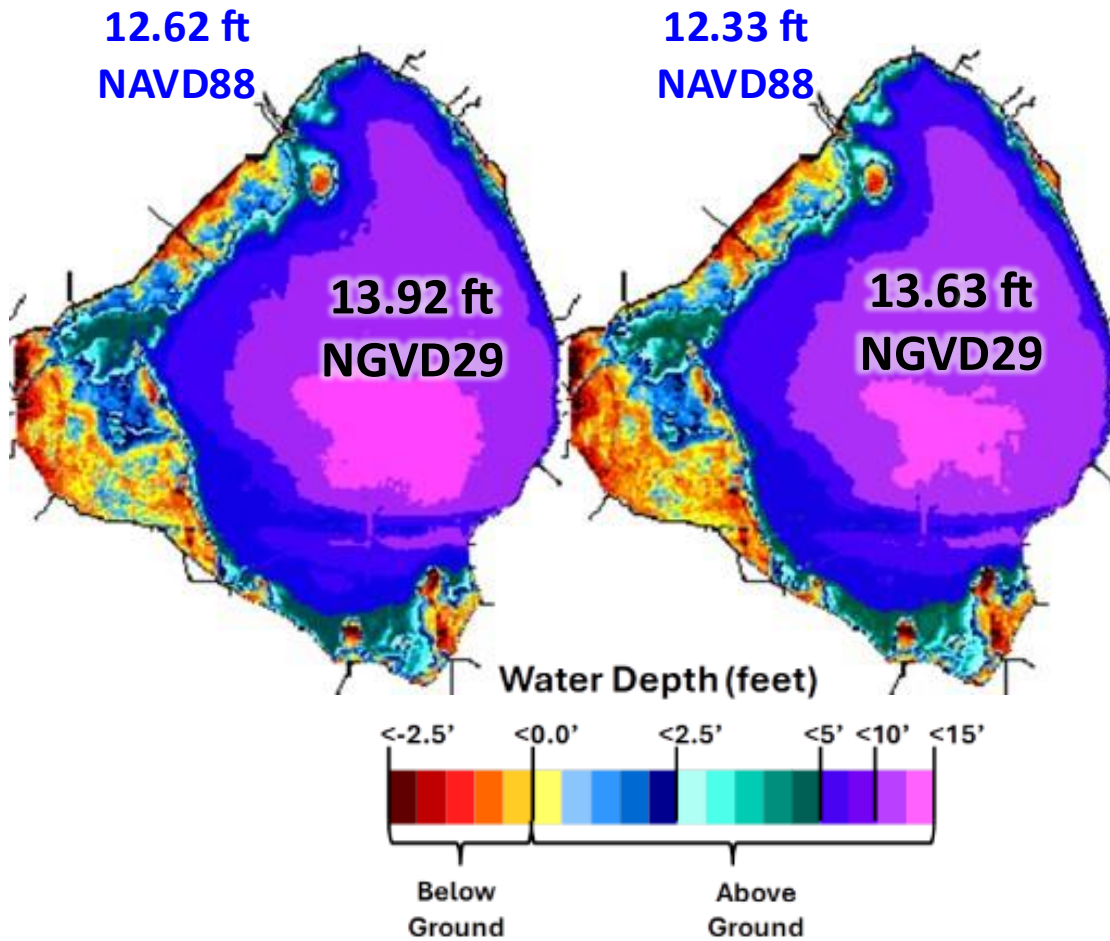


Figure LO-1. Lake Okeechobee water depth estimates based on South Florida Water Depth Assessment Tool (SFWDAT).

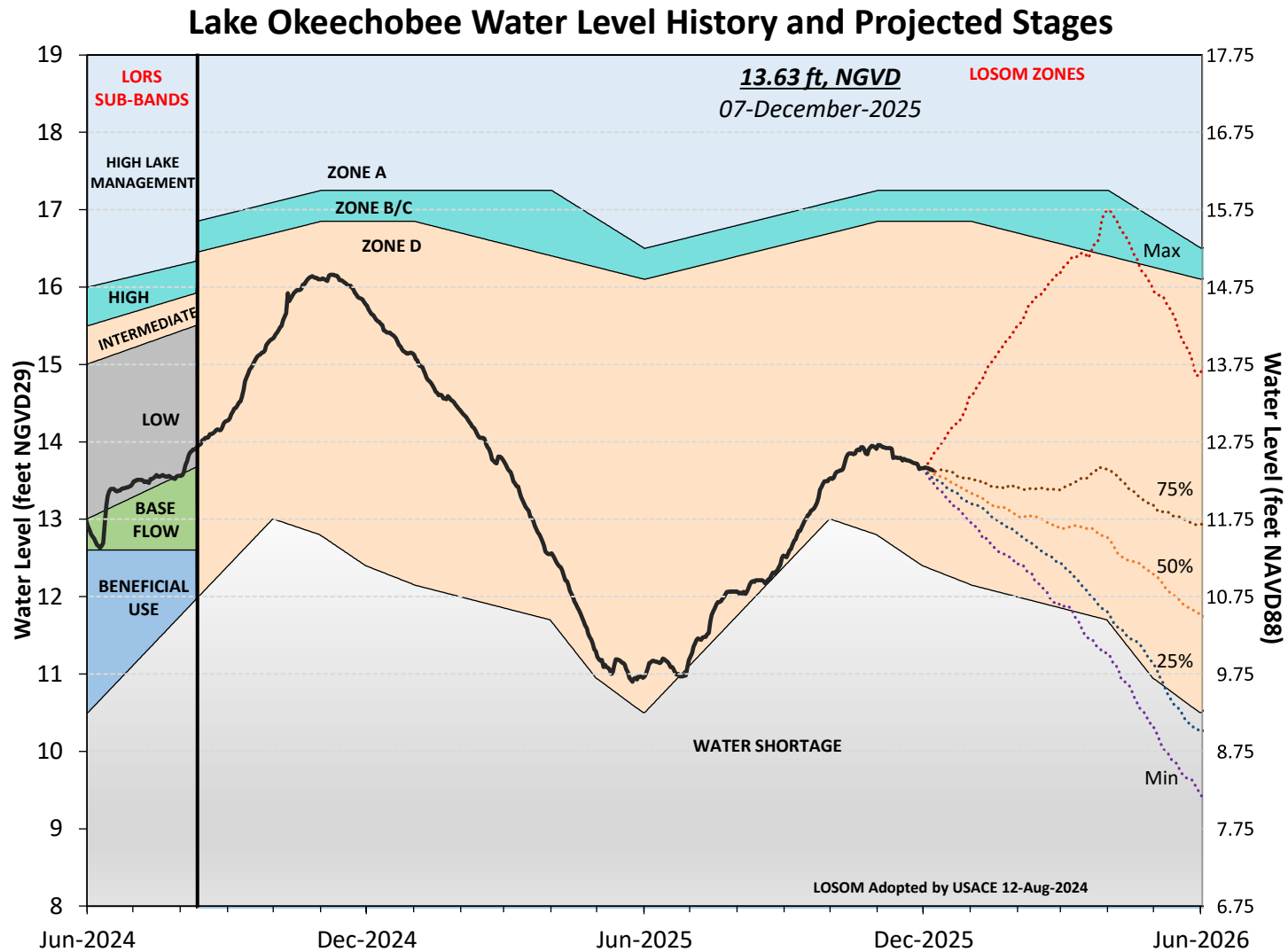


Figure LO-2. Recent Lake Okeechobee stages with projected stages based on a dynamic position analysis.
 Note: stages are in NGVD29, approximate NAVD88 values are shown for reference.

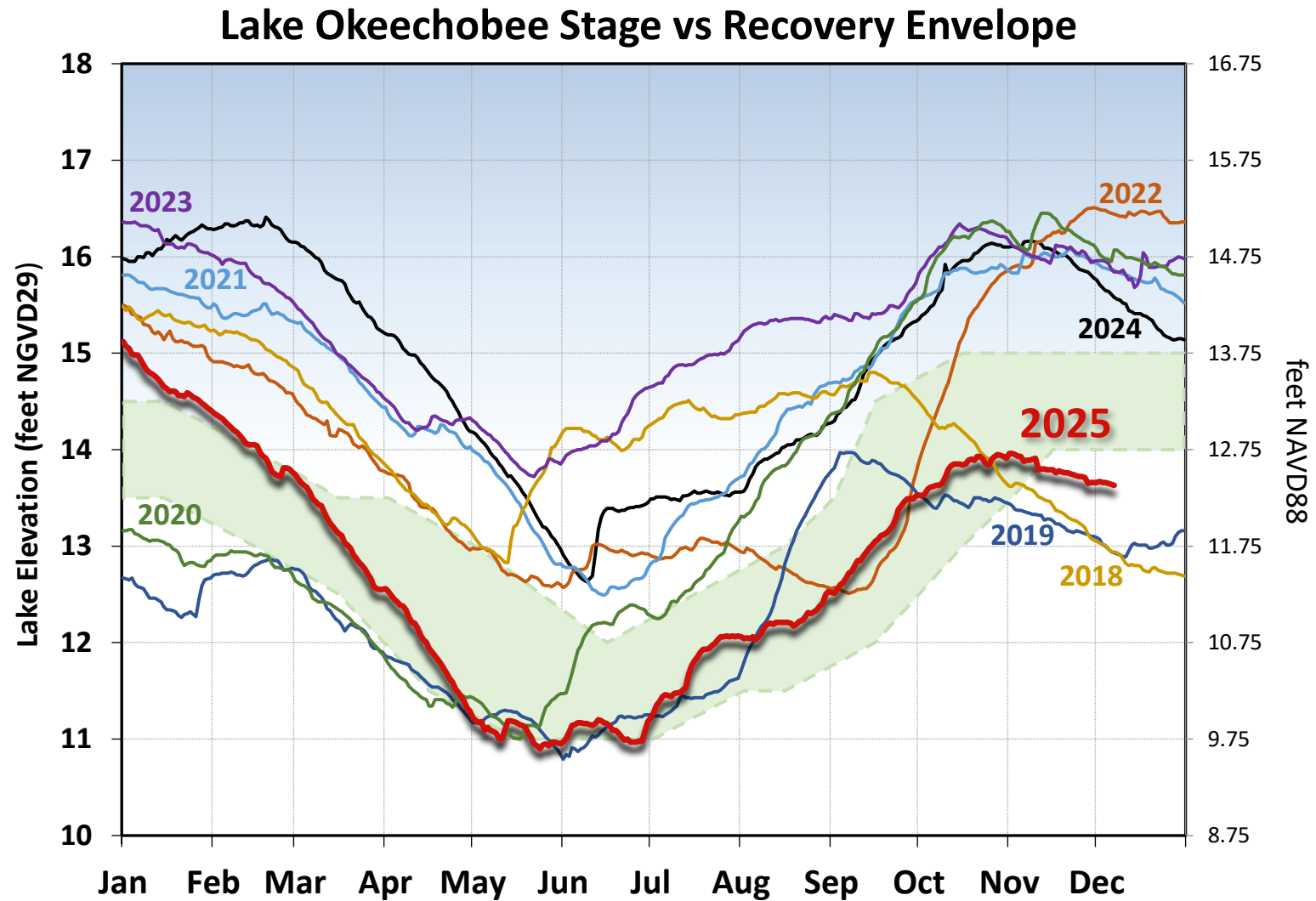


Figure LO-3. The current and seven prior year's annual stage hydrographs for Lake Okeechobee in comparison to the recovery envelope (light green). A shift from the normal to the recovery envelope occurred because the 30-day minimum lake stage (elevations exposed for at least 30 days, nonconsecutively) in the June 1 – July 31, 2023 (and 2024), window was >13 ft NGVD29 (11.75 ft NAVD88).

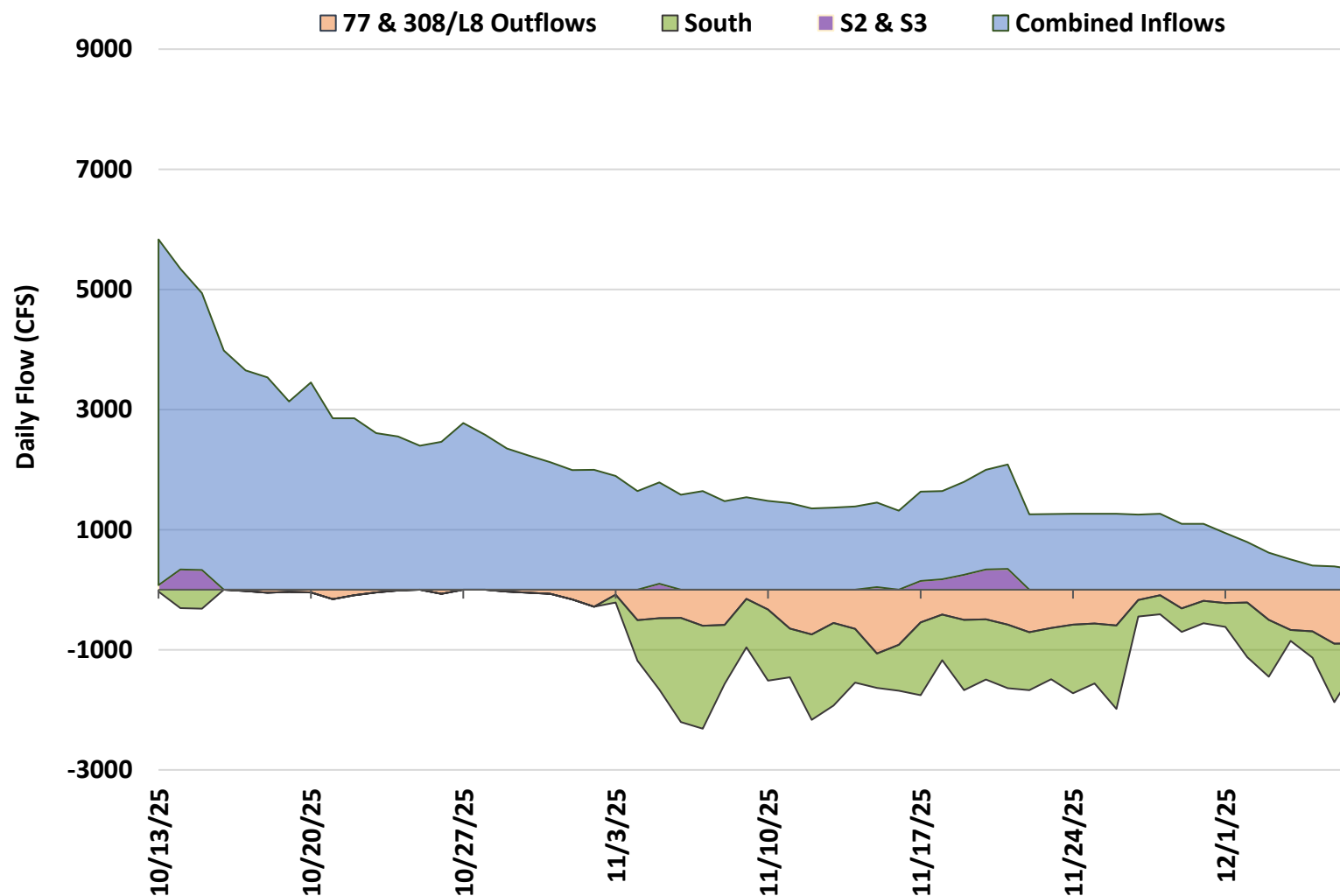


Figure LO-4. Major inflows (orange) to and outflows east and west (blue) from Lake Okeechobee. Outflows south are shown in green. Flows into Lake Okeechobee from the L-8 canal through S-271 (formerly Culvert 10A) or from the C-44 canal through the S-308 are included as inflows. Conversely, flows from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

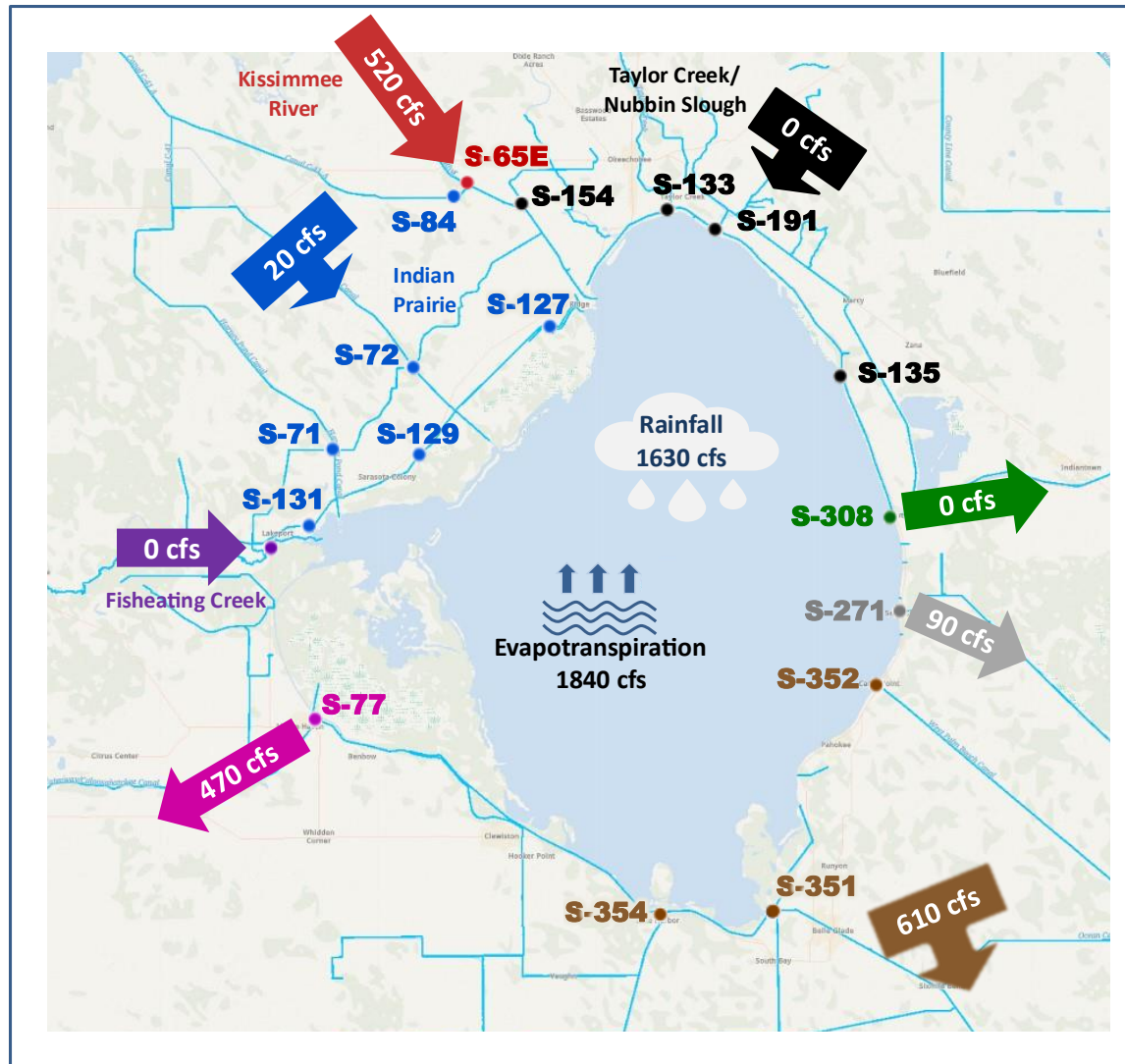


Figure LO-5. Inflows into Lake Okeechobee from Indian Prairie basins, Taylor Creek/Nubbin Slough, Kissimmee River and Fisheating Creek (currently no flow data available for FECR), and outflows to the west via S-77, to the east via S-308, to the south via S-351, S-352, S-354, and to southeast via S-271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

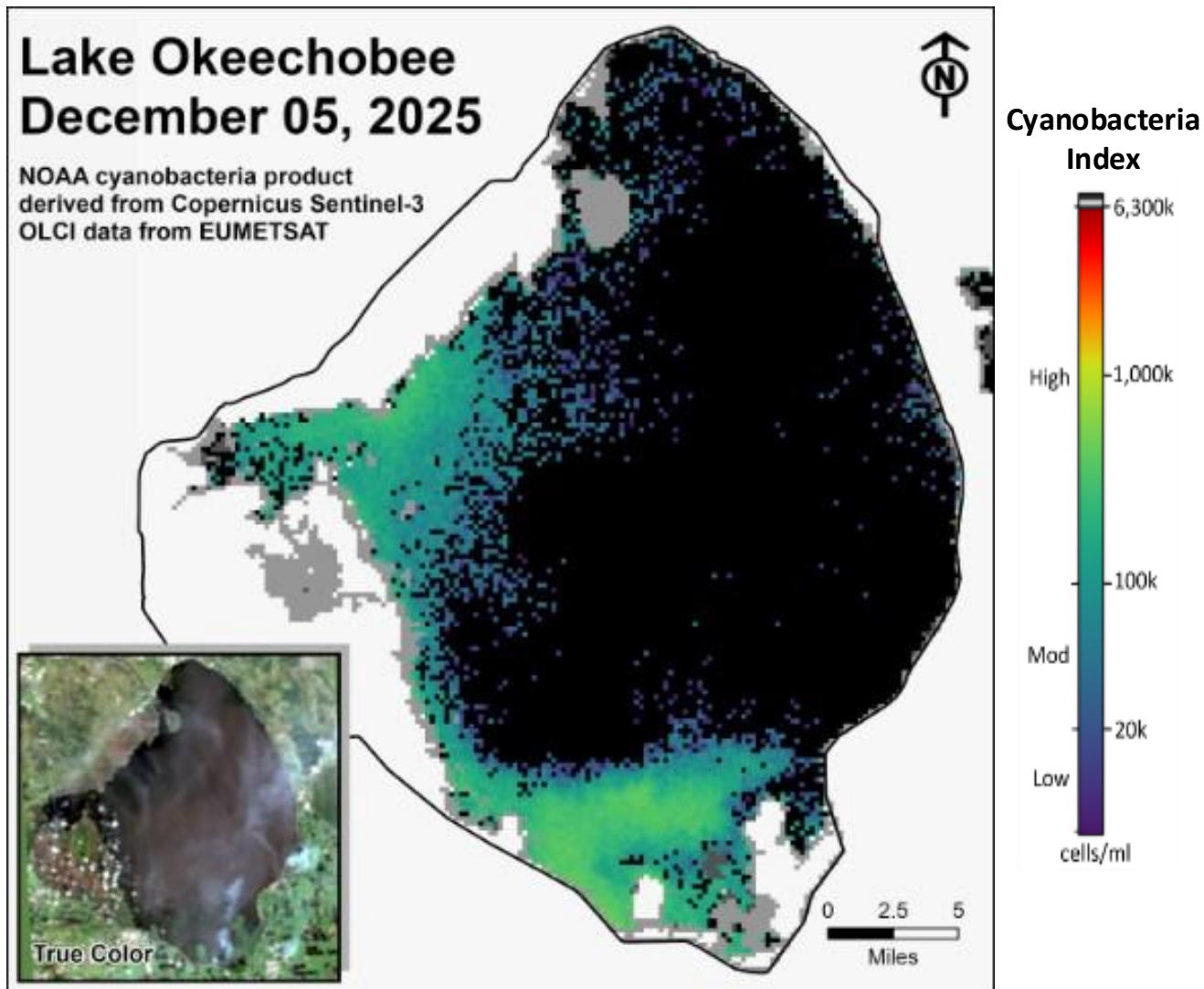


Figure LO-6. Cyanobacteria bloom index level on Lake Okeechobee, based on NOAA's harmful algal bloom monitoring system. Gray color indicates cloud cover. *Provisional NOAA image, subject to change*.

Estuaries

St. Lucie Estuary

Over the past week, mean total inflow to the St. Lucie Estuary was 181 cfs (**Figures ES-1 and ES-2**), and the previous 30-day mean inflow was 230 cfs. For comparison, the historical provisional mean inflows from contributing areas are shown in **Figure ES-2**.

Over the past week, salinities increased across all sites in 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 22.5. 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 November was 0.2 spat/shell at Rio, which is a decrease from the previous month (**Figure ES-5**).

Caloosahatchee River Estuary

Over the past week, mean total inflow to the Caloosahatchee River Estuary was 451 cfs (**Figures ES-6 and ES-7**), and the previous 30-day mean inflow was 512 cfs. For comparison, the historical provisional mean inflows from the contributing areas are shown in **Figure ES-7**.

Over the past week, surface salinities decreased at S-79 and increased at the remaining sites in the estuary (**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 at S-79 and in the stressed range at Val I-75 and Ft. Myers. The seven-day mean salinity values were within the optimal range for adult eastern oysters at Cape Coral and in the upper stressed range at Sanibel and Shell Point (**Figure ES-10**). The mean larval oyster recruitment rates reported by the FWRI in November were 2.1 spat/shell at Iona Cove and 8.8 spat/shell at Bird Island, which is lower than 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 90 cfs. Model results from all scenarios predict daily salinity to be 8.2 or lower and the 30-day moving average surface salinity to be 8.5 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 December 5, 2025, that *Karenia brevis*, the Florida red tide dinoflagellate, 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.

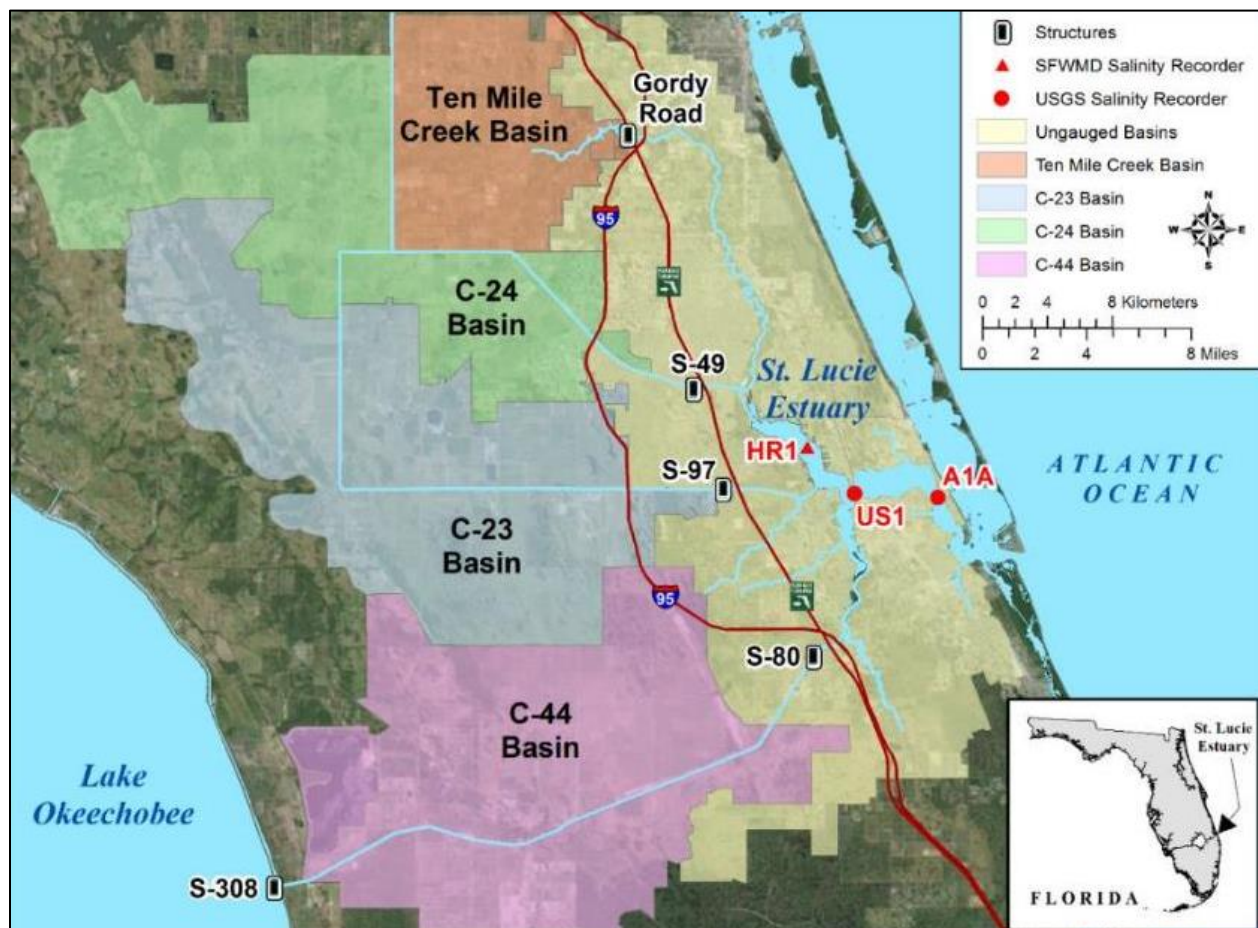


Figure ES-1. Basins, water control structures and salinity monitoring sites in the St. Lucie Estuary.

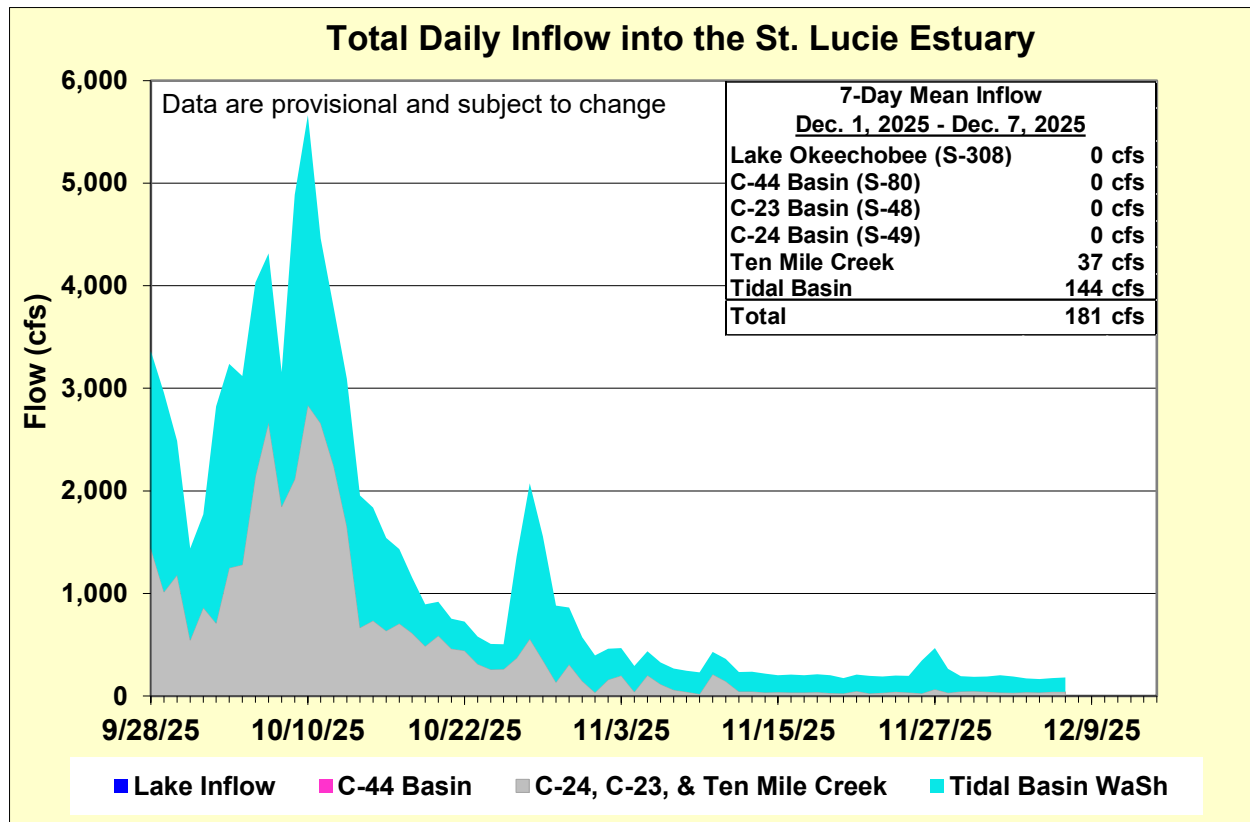


Figure ES-2. Total daily inflows from Lake Okeechobee and runoff from the C-44, C-23, C-24, Ten Mile Creek, and Tidal Basins into the St. Lucie Estuary.

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)	19.3 (18.5)	21.7 (20.7)	10.0 – 25.0
US1 Bridge	22.3 (21.6)	22.7 (22.1)	10.0 – 25.0
A1A Bridge	28.9 (28.0)	29.9 (29.4)	10.0 – 25.0

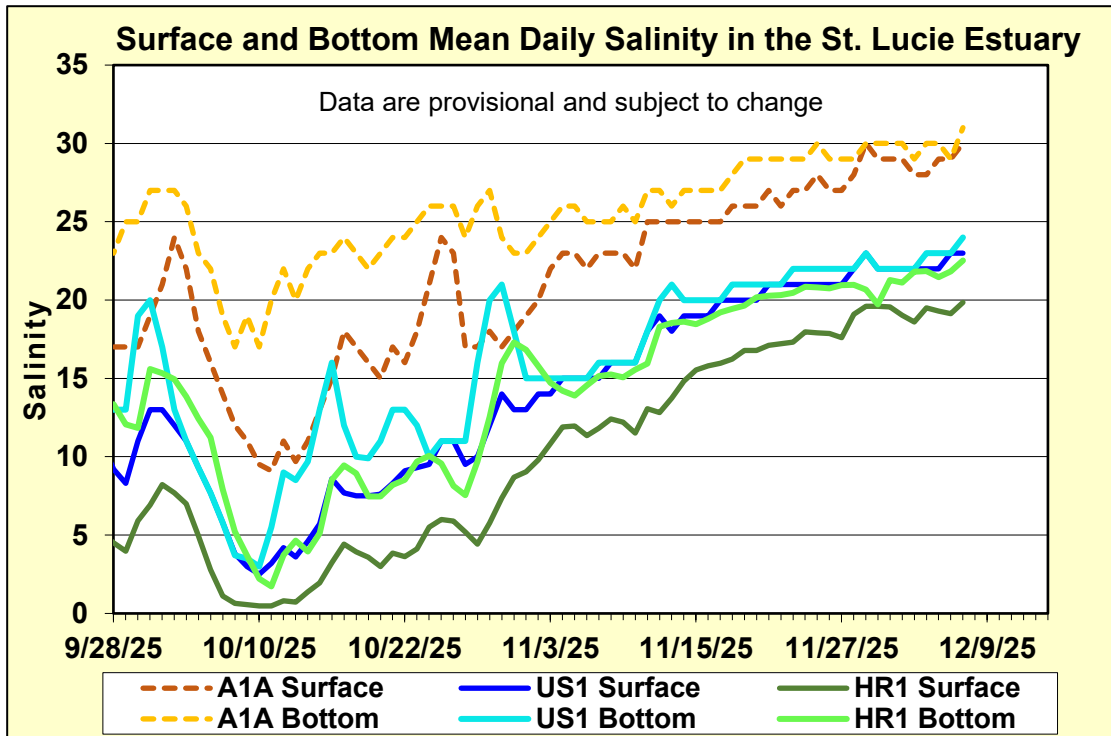


Figure ES-3. Mean daily salinity at the A1A, US1, and HR1 sites in the St. Lucie Estuary.

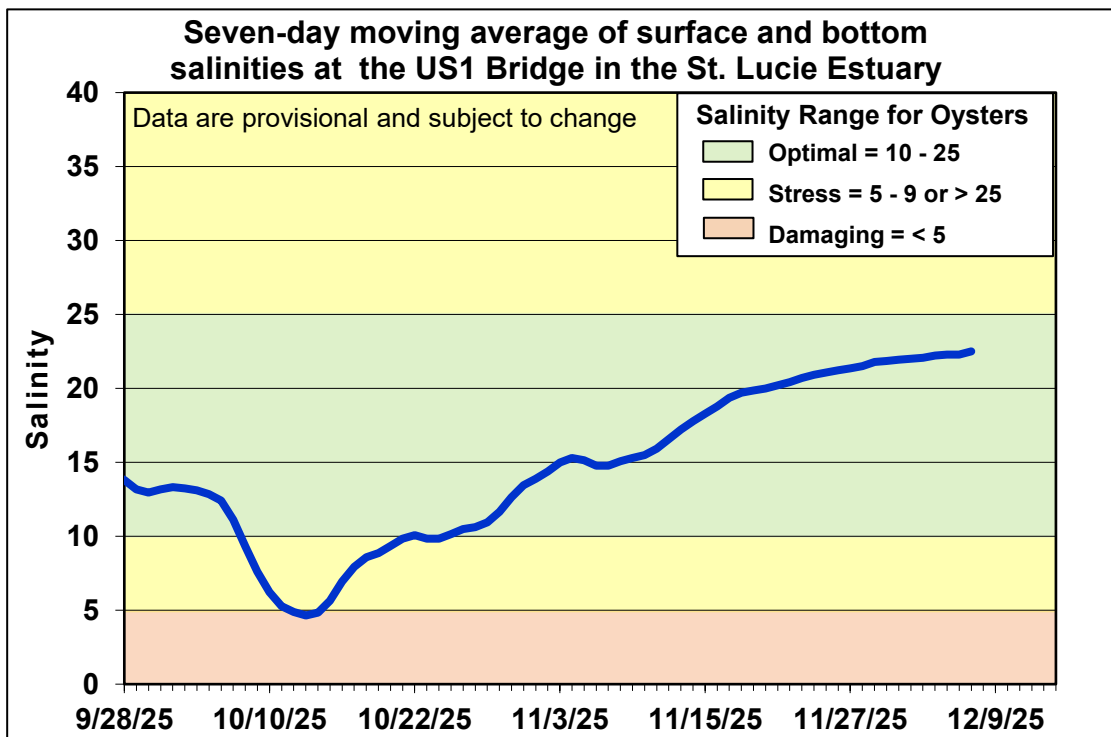


Figure ES-4. Seven-day moving average of the surface and bottom salinities at the US1 Bridge in the St. Lucie Estuary.

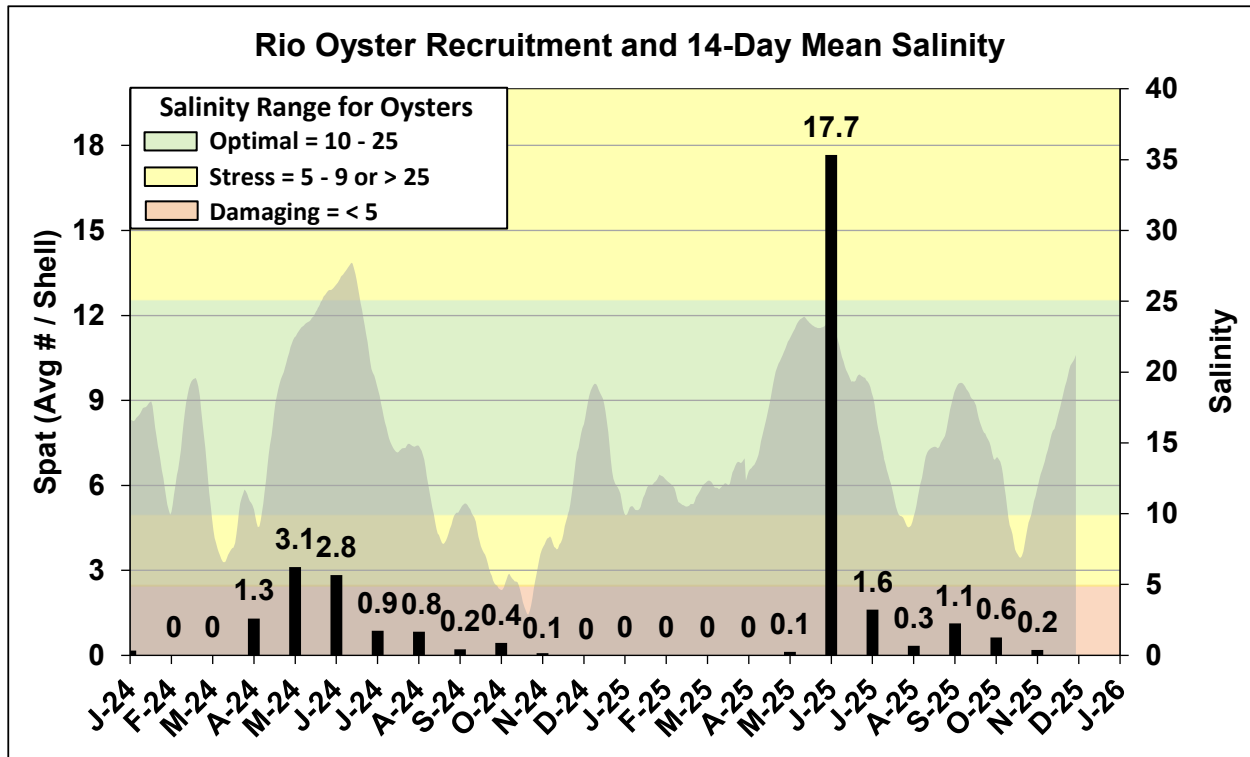


Figure ES-5. Mean oyster recruitment at the Rio oyster monitoring station and 14-day mean salinity at US1 Bridge.

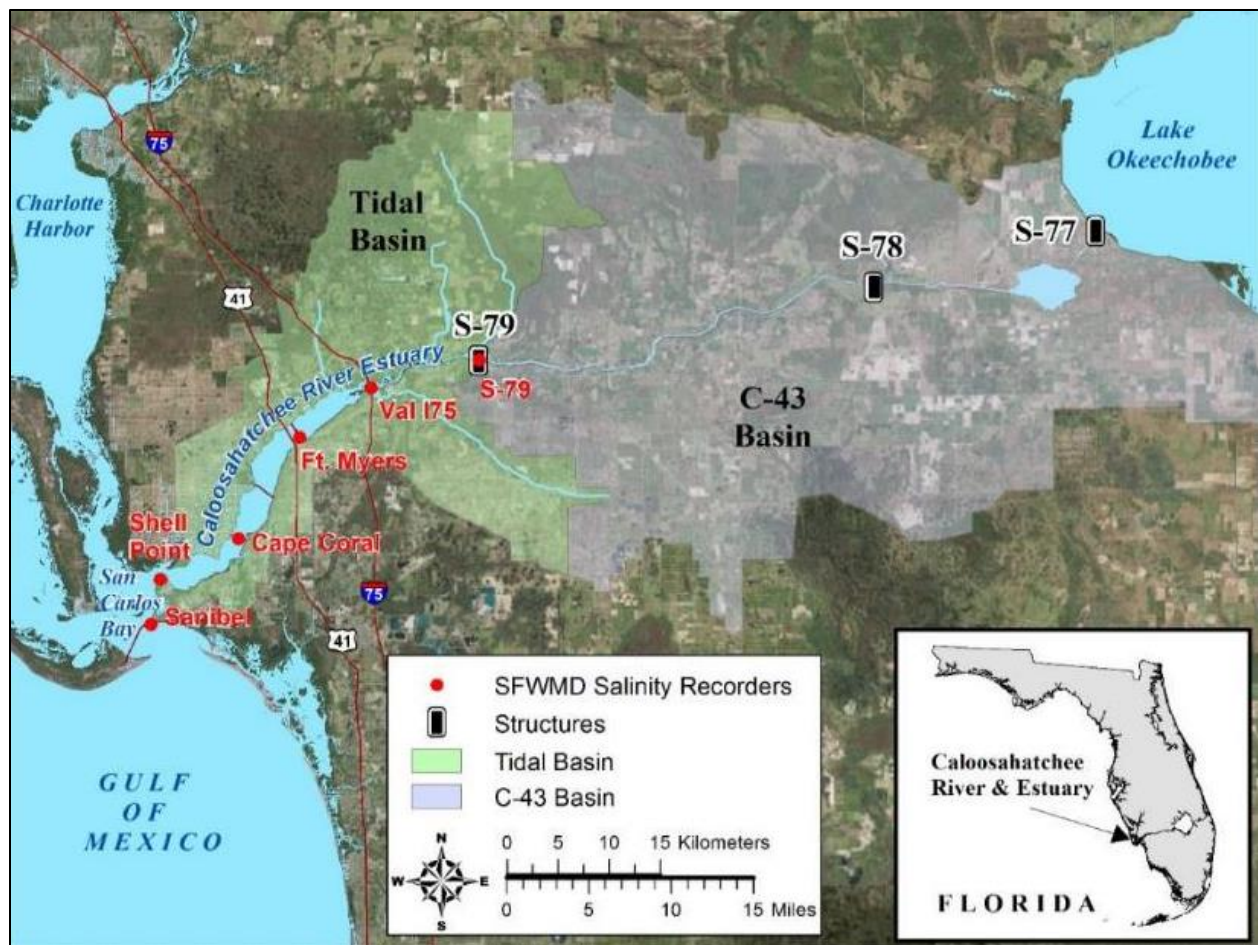


Figure ES-6. Basins, water control structures, and salinity monitoring sites in the Caloosahatchee River Estuary.

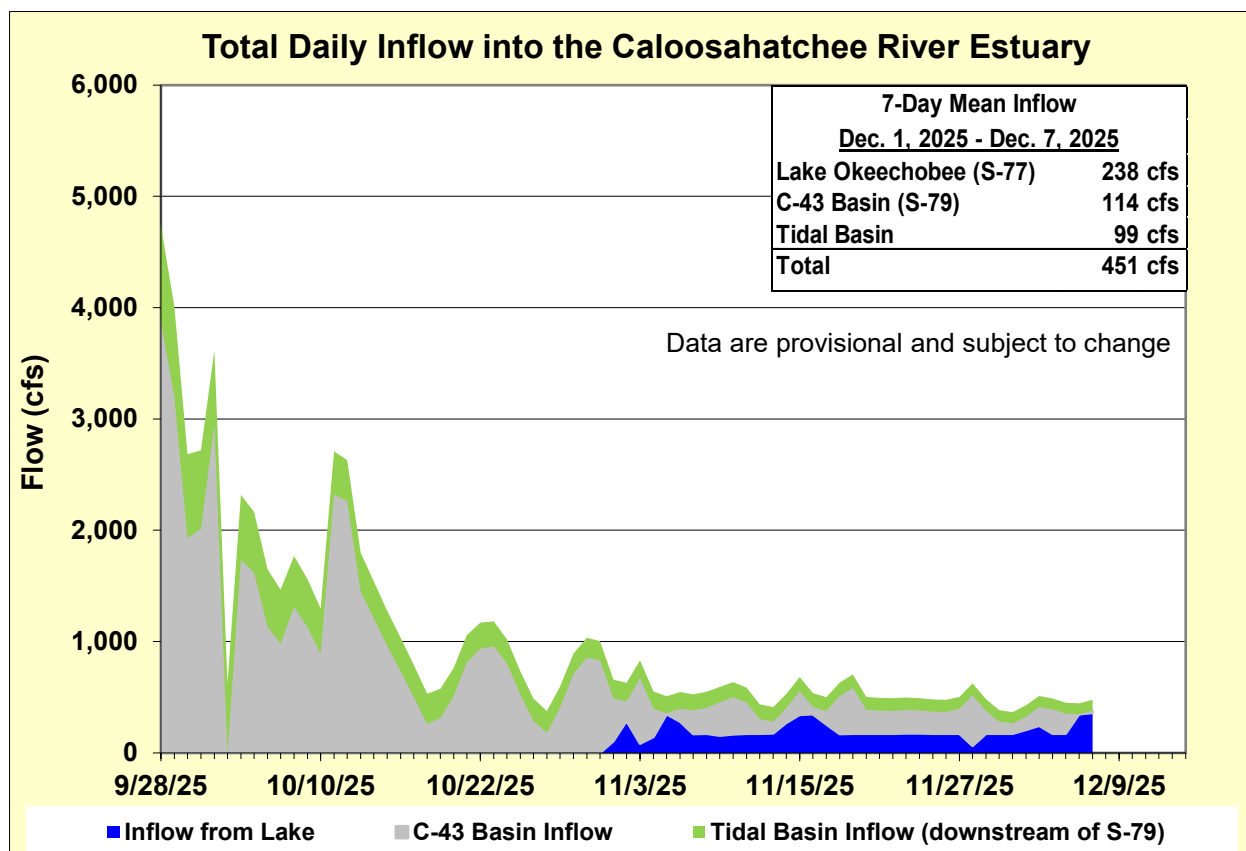


Figure ES-7. Total daily inflows from Lake Okeechobee, and runoff from the C-43 and Tidal basins into the Caloosahatchee River Estuary.

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)	6.9 (7.4)	7.3 (8.2)	0.0 – 10.0
Val I-75	8.7 (8.5)	10.4 (10.6)	0.0 – 10.0
Fort Myers Yacht Basin	15.5 (13.8)	16.5 (15.9)	0.0 – 10.0
Cape Coral	22.1 (19.8)	23.3 (21.1)	10.0 – 25.0
Shell Point	31.6 (28.6)	31.2 (28.9)	10.0 – 25.0
Sanibel	32.1 (30.9)	33.5 (32.0)	10.0 – 25.0

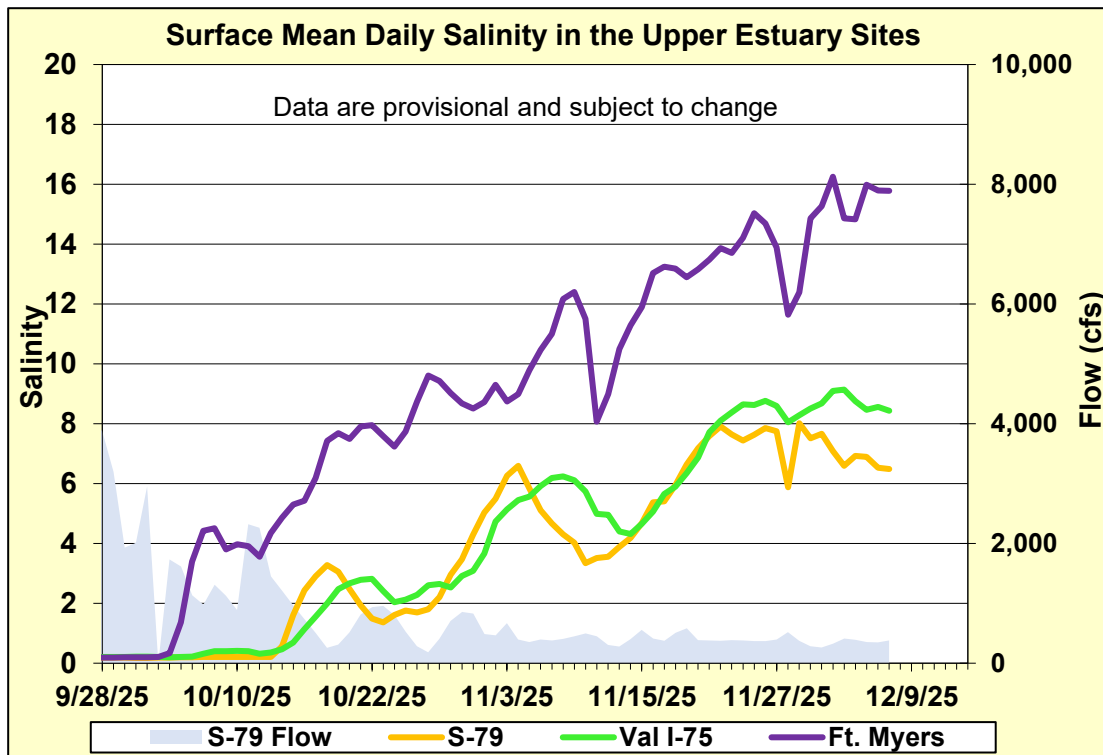


Figure ES-8. Mean daily salinity at upper Caloosahatchee River Estuary monitoring sites and mean daily flow at S-79.

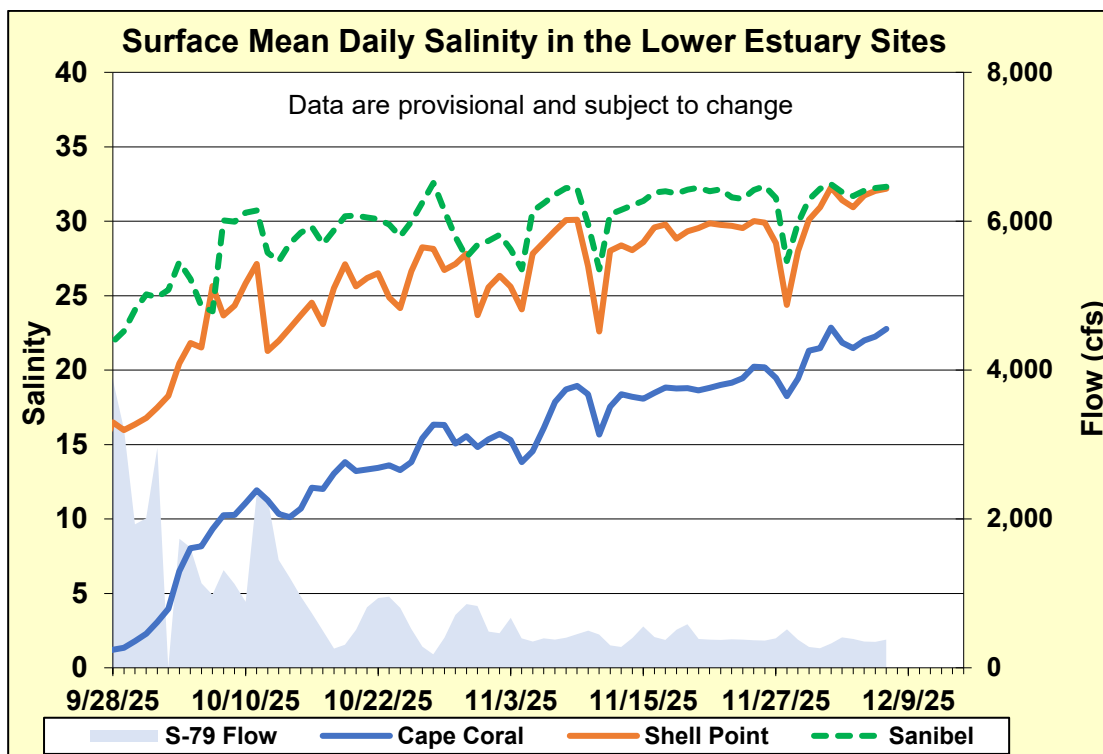


Figure ES-9. Mean daily surface salinity at lower Caloosahatchee River Estuary monitoring sites and mean daily flow at S-79.

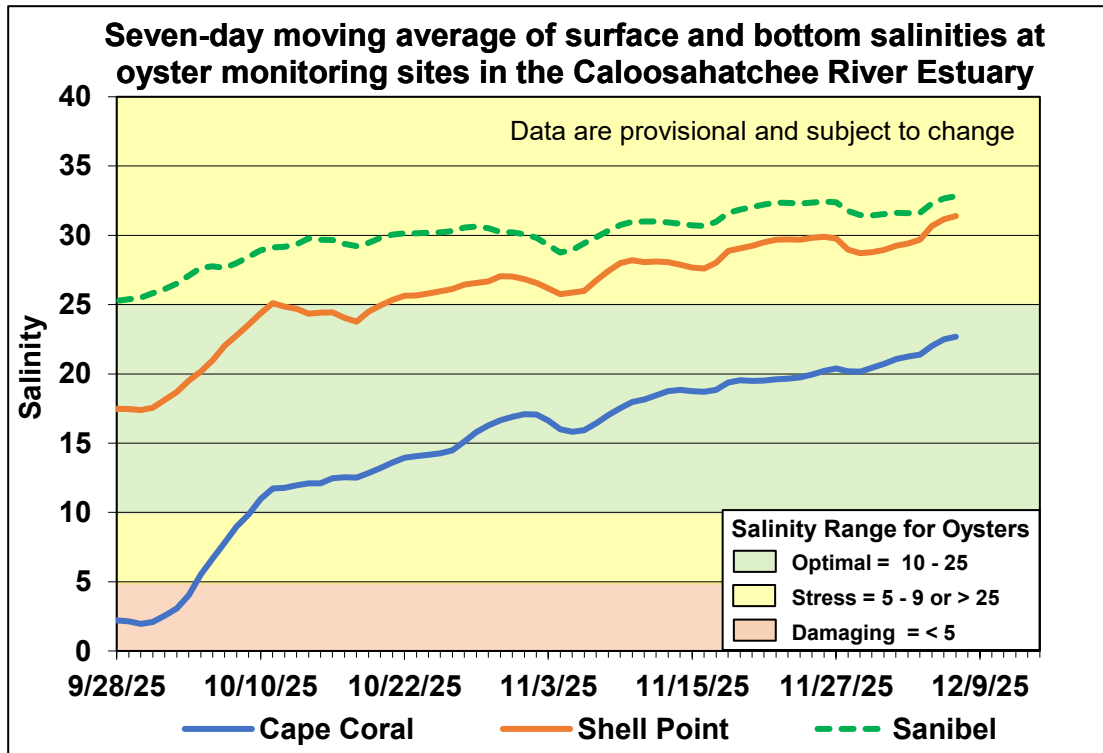


Figure ES-10. Seven-day moving average of surface and bottom salinities at Cape Coral, Shell Point, and Sanibel monitoring sites in the Caloosahatchee River Estuary.

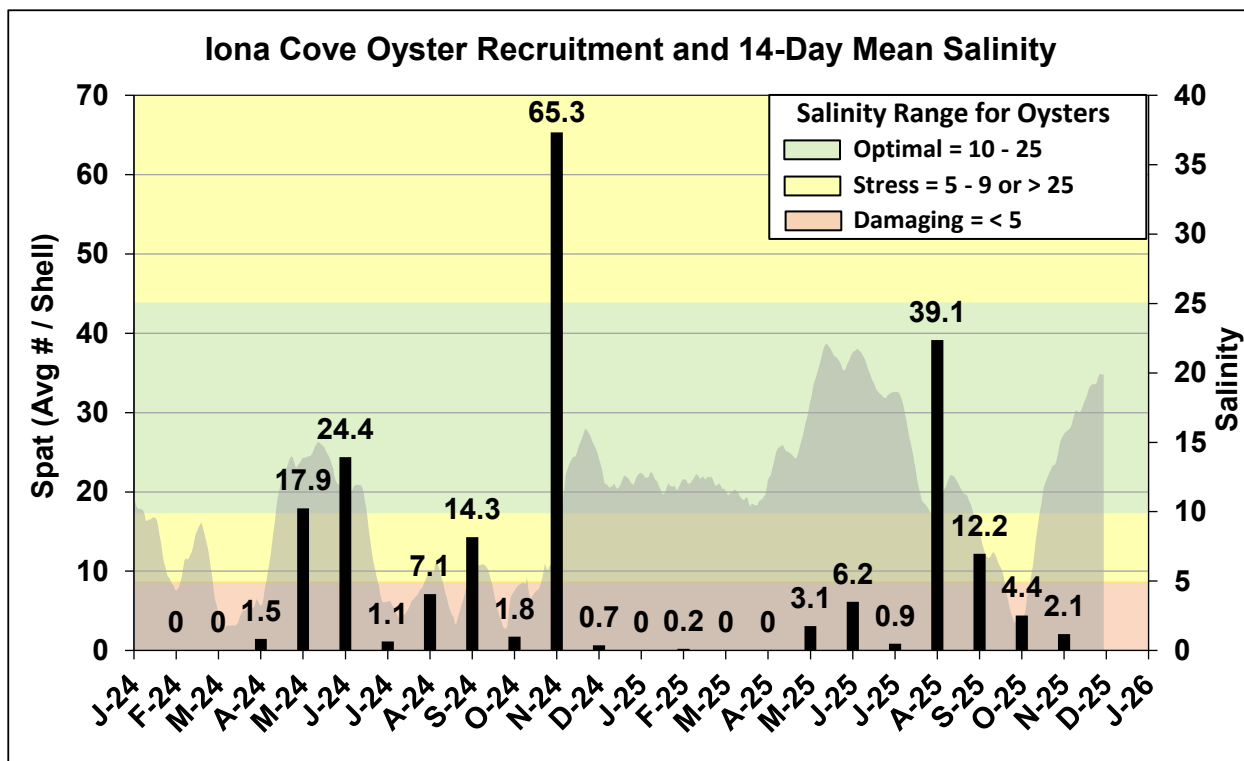


Figure ES-11. Mean oyster recruitment at the Iona Cove oyster monitoring station and 14-day mean salinity at Cape Coral.

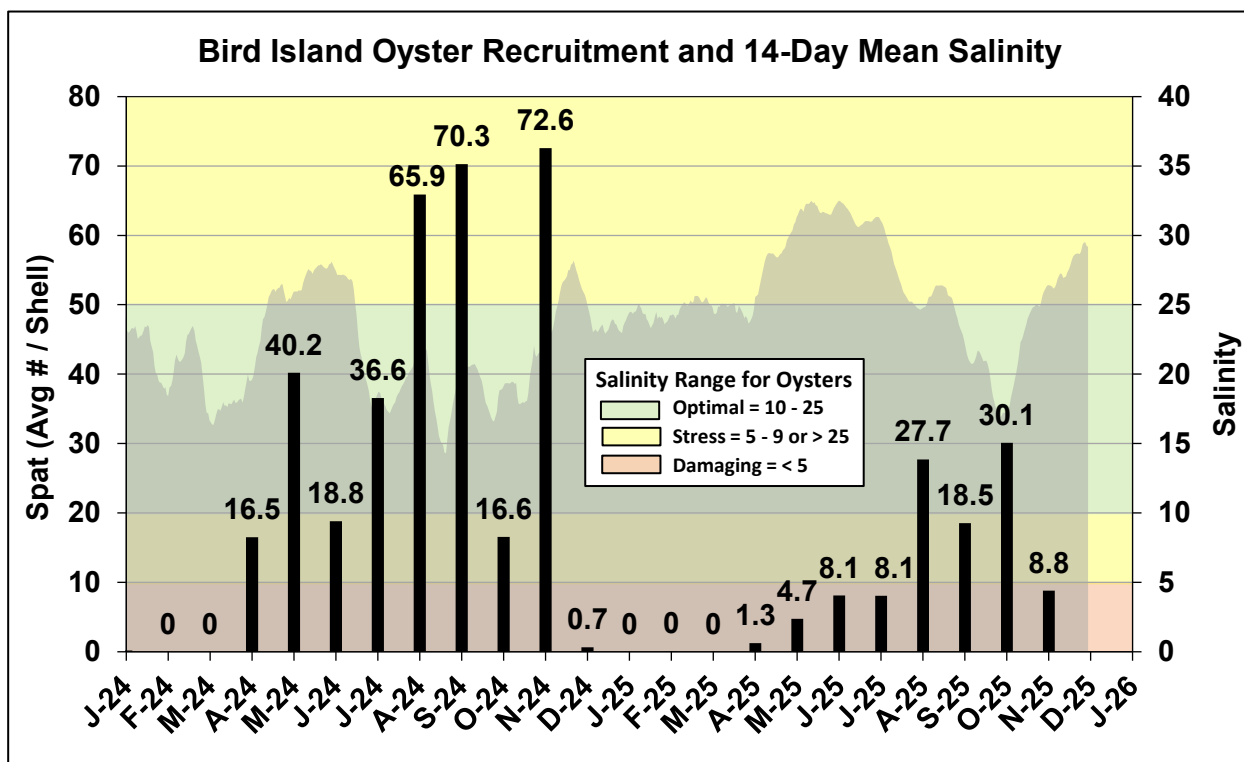


Figure ES-12. Mean oyster recruitment at the Bird Island oyster monitoring station and 14-day mean salinity at Shell Point.

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	90	8.2	8.5
B	750	90	6.5	8.0
C	1,000	90	5.3	7.6
D	1,500	90	3.5	7.0
E	2,000	90	2.2	6.6

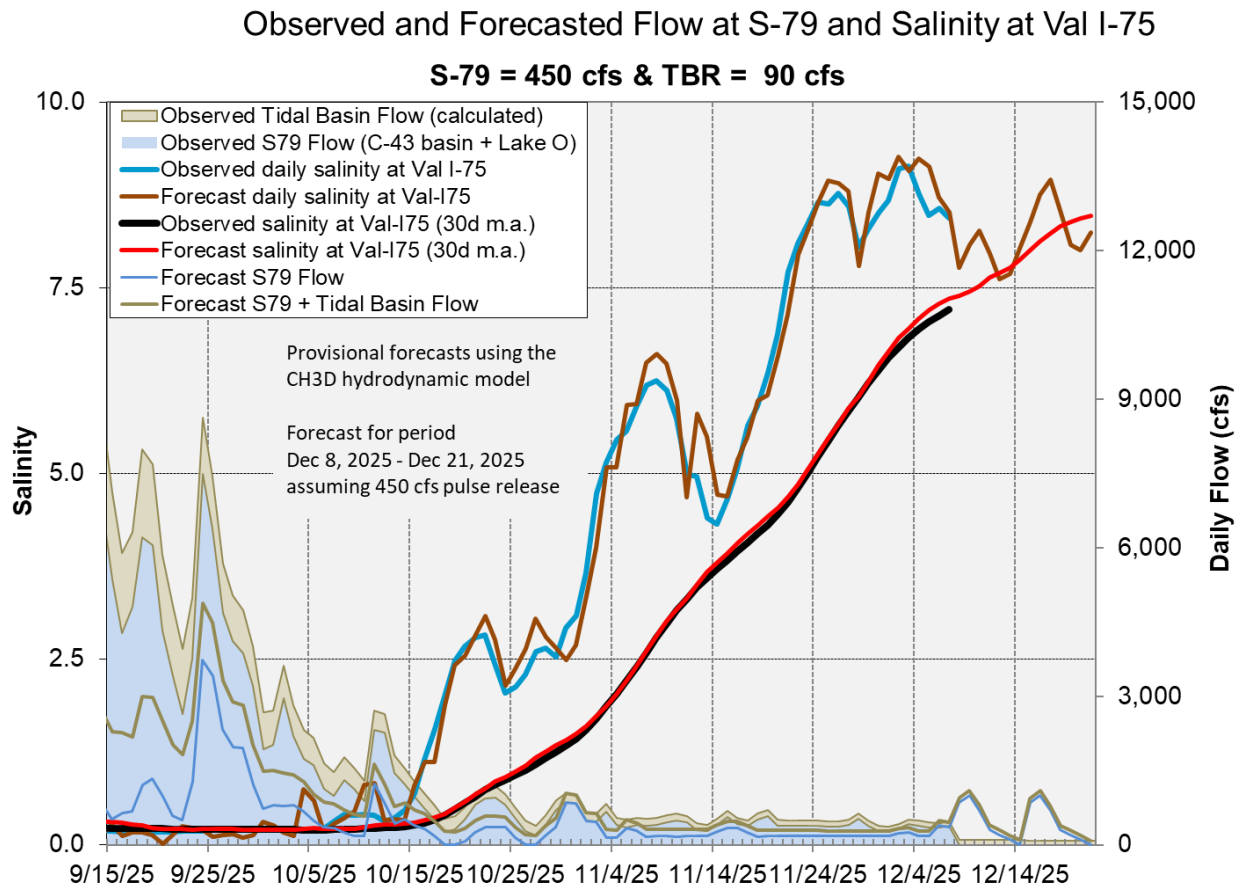


Figure ES-13. Surface salinity forecast at the Val I-75 site assuming a 450 cfs pulse release at S-79.

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 at or slightly above target stage. The 365-day PLR for the Western and Eastern Flow-way is below 1.0 g/m²/year (**Figure S-2**).

STA-1W: STA-1W Eastern Flow-way is offline for vegetation management activities. Most treatment cells are at target stage. Vegetation in the Western and Eastern Flow-ways is highly stressed. The 365-day PLRs for the Eastern and Western Flow-ways are below 1.0 g/m²/year. The 365-day PLR for the Northern Flow-way is high (**Figure S-2**).

STA-2: Operational restrictions are in place in Flow-ways 2, 3 and 4 for vegetation management activities. Treatment cells are at target stage. The 365-day PLRs for all Flow-ways 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 vegetation management activities. Treatment cells are slightly 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: Treatment cells are at or above target stage. All treatment cells have highly stressed vegetation conditions. The 365-day PLRs for all Flow-ways are below 1.0 g/m²/year. (**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 12/07/2025): ~532,500 ac-ft
- Lake Okeechobee releases to FEBs/STAs
 - 12/01/2025 to 12/07/2025: 400 ac-ft
 - WY2026: ~ 32,400 ac-ft
- Extensive vegetation management activities underway to address stressed and highly stressed vegetation in EAV cells
- All treatment cells are at or near target water depth

Estimated Inflow and Outflow Volumes

Dec. 1st-7th, 2025

Includes preliminary data

	Total Inflow (acre-feet)	Total Outflow (acre-feet)
STA-1E	320	120
STA-1W	0	50
STA-2	0	250
STA-3/4	280	0
STA-5/6	480	480

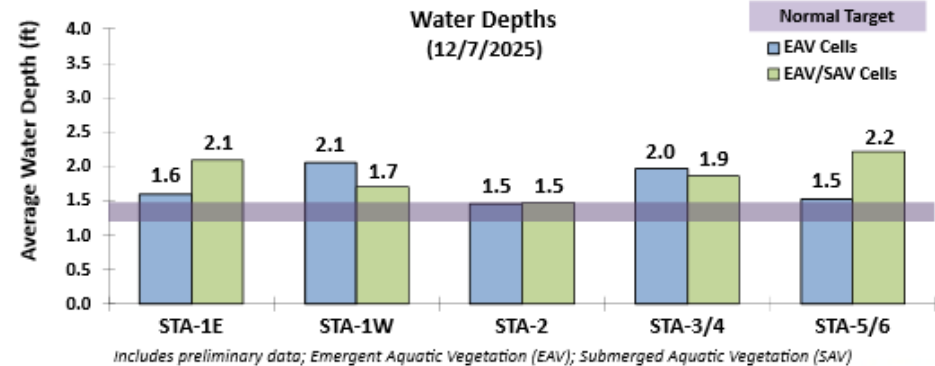


Figure S-1. STA depths and flow volumes

0 CFS Lake release capacity in Eastern Flow Path:
12/8/2025 to 12/14/2025
Subject to change weekly as dry season progresses

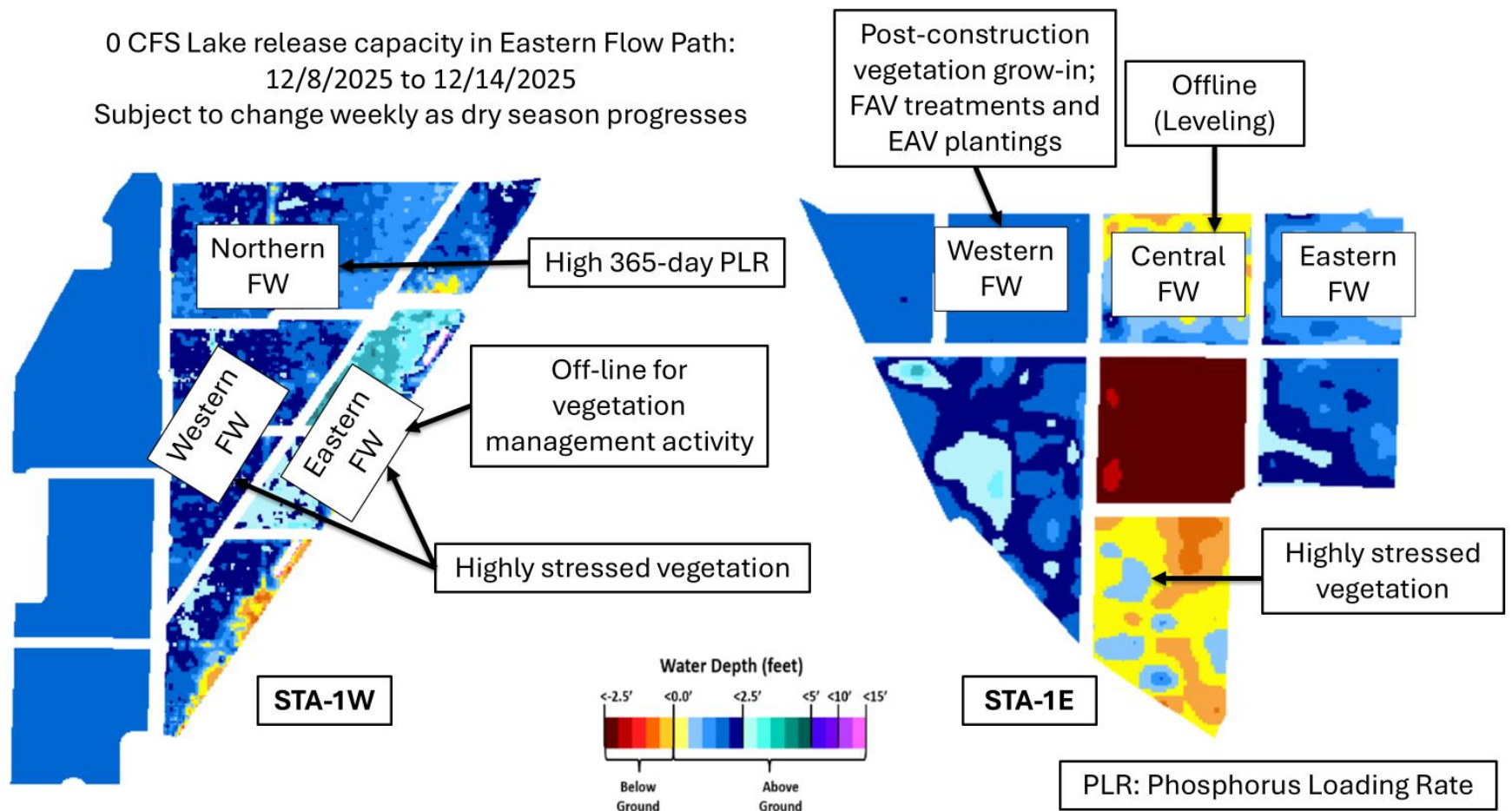


Figure S-2. Eastern Flow Path Weekly Status Report

0 CFS Lake release capacity in Central Flow Path:
12/8/2025 to 12/14/2025

- Subject to change weekly as dry season progresses

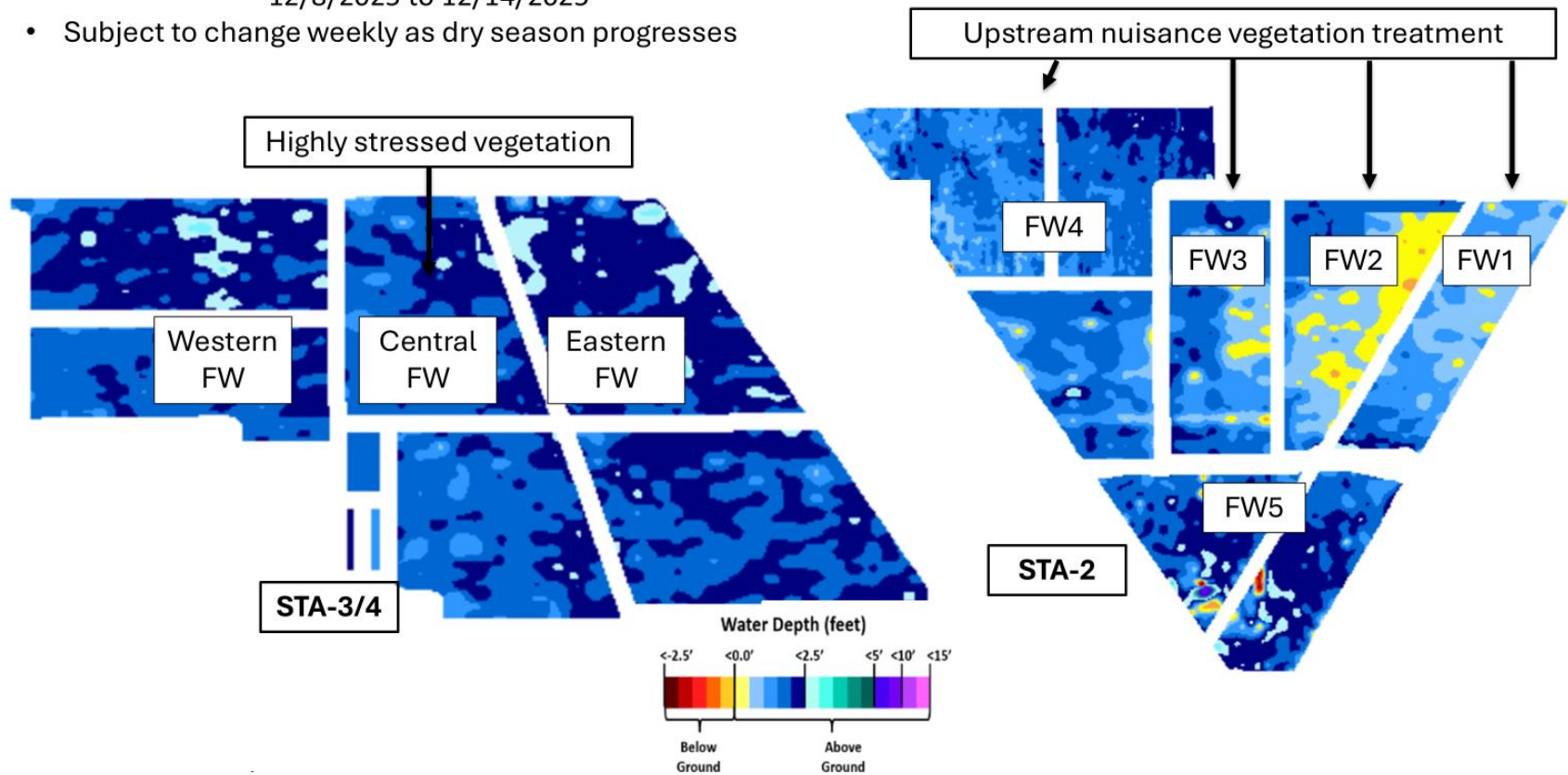


Figure S-3. Central Flow Path Weekly Status Report

0 CFS Lake release capacity in Western Flow Path:
12/8/2025 to 12/14/2025

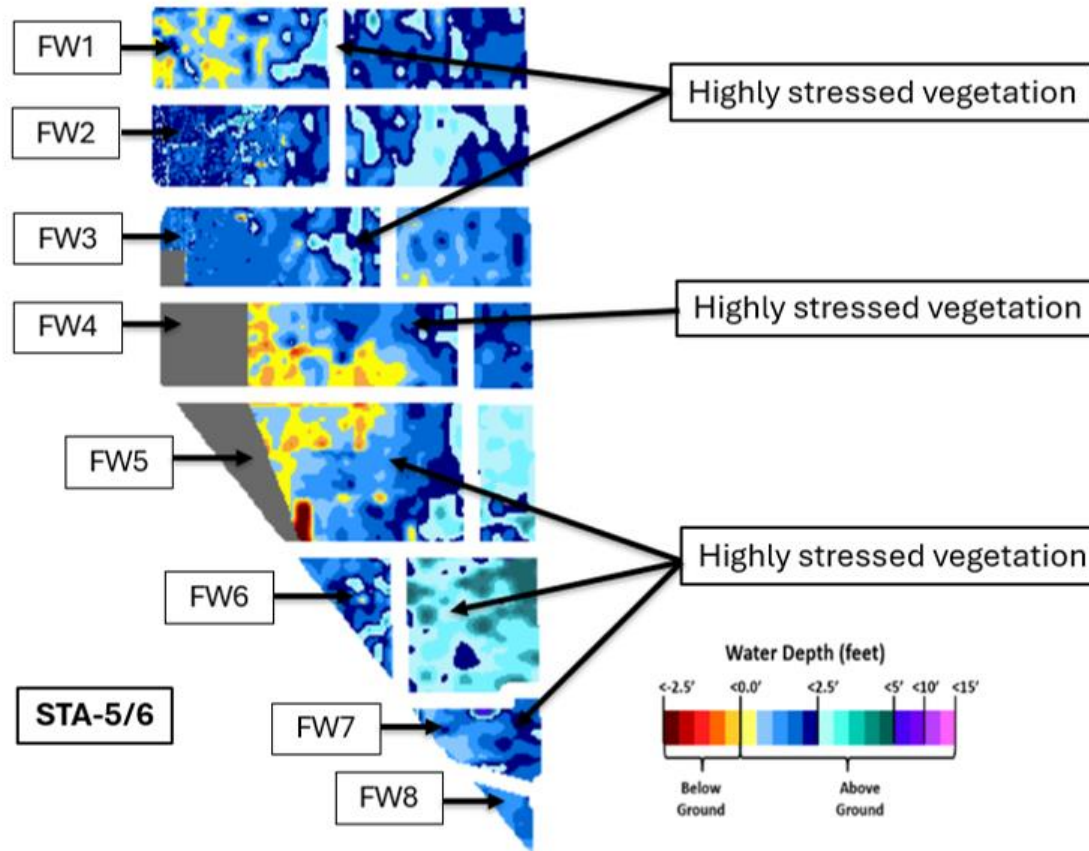


Figure S-4. Western Flow Path Weekly Status Report

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 change at the 3-gauge average last week was a steady recession, and stages were 0.72 feet below the flat A1 Zone regulation line on Sunday, December 7, 2025. WCA-2A: Last week, stage at the 2-17 gauge also experienced a gradual decline but remains well above the falling Zone A regulation line, 1.8 feet above on Sunday. WCA-3A: The 3-gauge average remains well into Zone B, and stage change was a gradual recession. On Sunday, stages were 1.13 feet below the Zone A regulation line. WCA-3A Northwest: Stage at Gauge 62 (NW corner) steadily declined last week and remained below the Upper Schedule regulation line by 0.63 feet on Sunday. See **Figures EV-1 through EV-4**.

Water Depths

The SFWDAT model output for December 7, 2025, illustrates a slow recession in WCA-1 over the last two months, driest in the north. The southern half of WCA-2A remains deep for this time of year. Drier than normal conditions expand across Northern WCA-3A. Depths are decreasing across WCA-3A and -3B, remaining low for this time of year. Below average depths limit aquatic prey production in the Everglades. Hydrologic connectivity has been declining throughout the dry season across the major sloughs of Everglades National Park (ENP), but it remains intact in Shark River and Taylor Slough. Comparing conditions on Sunday to depths over the last twenty years; a majority of WCA-3A and WCA-3B remain in the 10th percentile, while in southern WCA-2A depths remain above the 90th percentile. ENP is also showing relatively low water levels at or near the 10th percentile throughout most of the park. See **Figures EV-5 through EV-6**.

Taylor Slough and Florida Bay

All stages across Taylor Slough decreased over the past week, with an average decrease of 0.08 feet for the week. Changes ranged from -0.17 feet at Taylor Slough Bridge (TSB) in the northern slough to -0.03 feet at EPSW in the C-111 area (**Figure EV-7 and Figure EV-8**). Taylor Slough water levels remain just above the recent average (WY1993-2016) for this time of year by 0.2 inches compared to before the Florida Bay Initiative (starting in 2017), a decrease of 0.7 inches relative to last week's comparison. The Craighead Pond (CP) and TSB stages remain below the estimated average for 1900 by 0.68 and 1.32 feet, respectively.

Average Florida Bay salinity was 27.3, an increase of 1.7 from last week. Salinity changes ranged from -3.0 at Buoy Key (BK) in the western region to +9.2 at Joe Bay (JB) in the eastern nearshore region (**Figure EV-7**). Salinity is above the estimated average for 1900 and at or near the WY2001-2016 Interquartile Range (IQR) 75th percentile in the eastern and central region of the bay, and closer to the 50th percentile in the western region (**Figure EV-9**). Average Florida Bay salinity is above its recent average (WY1993-2016) for this time of year by 3.1, an increase of 1.5 from last week.

Salinity at the Taylor River (TR) station in the mangrove zone (tracked for the Florida Bay MFL) was 1.1, an increase of 0.2 from last week (**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 unable to be assessed due to missing data.

Average rainfall across Taylor Slough and Florida Bay was approximately 0.01 inches over the past week, based on the 18 gauges used for this report. Rainfall ranged from 0.0 inches at nine stations to 0.05 inches at Garfield Bight (GB) in the western nearshore region (**Figure EV-11**). Wind directions and speeds in Florida Bay ranged from 0.2 mph NW on December 6th to 16.3 mph SE on December 2nd (**Figure EV-11**).

The Taylor River, Mud Creek, and West Highway Creek flow stations are currently offline until at least January, so data from all five major creeks are unable to be assessed. Based on the available data from Trout and McCormick Creeks, average daily flow totaled -460 acre-feet, with net negative flows for the week. Total daily creek flow ranged from -1,817 acre-feet on December 2nd to 911 acre-feet on December 4th (**Figure EV-13**). Average daily flow from Alligator creek was -21 acre-feet, with net negative flows for the week (**Figure EV-13**).

Implications/considerations for water management.

- Stage has receded gradually within the EPA over the dry season. Slow recessions (around 0.05 feet per week) are needed to protect the wetland ecology from damaging dry downs expected by the end of the dry season in most regions. The depths within WCA-3A this wet season were not high enough (need ~2.5 to 3.0 feet peak depths) to recover aquatic prey populations from antecedent dry conditions or protect peat soils throughout the current dry season especially given a La Nina climate prediction this winter and therefore could benefit from reduced recessions if possible.
 - WCA-3A continues to experience unseasonably dry conditions.
 - Populations of prey, already depleted by the extended dry down in the last dry season, are unlikely to recover for another year or even longer if water levels do not return to more average conditions.
 - This has the potential to further extend the recent run of 4 consecutive poor wading bird nesting years into the 2026 nesting seasons.
 - With the potential for La Nina conditions this dry season, conserving water within the WCAs in the early dry season may prove ecologically beneficial especially in regions prone to dry out (e.g. WCA-3A North).
- Depths are too deep (~3.0 feet) in south-central WCA-2A where shallower conditions (read suitable depth) are needed to recover ridge and slough habitat.
- Taylor Slough depths are steadily receding, and salinities are above their recent average in Florida Bay.
 - Continued freshwater input through the S332 Detention Area, Frog Pond, and C-111 inflow structures into Taylor Slough and the C-111 basin would

help moderate salinities and support recovery of estuarine conditions in Florida Bay.

- Conserving water in the WCAs while providing freshwater input to the sloughs of ENP will require careful consideration of a balance between the upstream and downstream ecological needs of the system. 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	0.64	-0.05
WCA-2A	0.64	-0.12
WCA-2B	0.64	+0.09
WCA-3A	0.39	-0.05
WCA-3B	0.39	-0.03
ENP	0.11	-0.04

**estimated due to data issues*

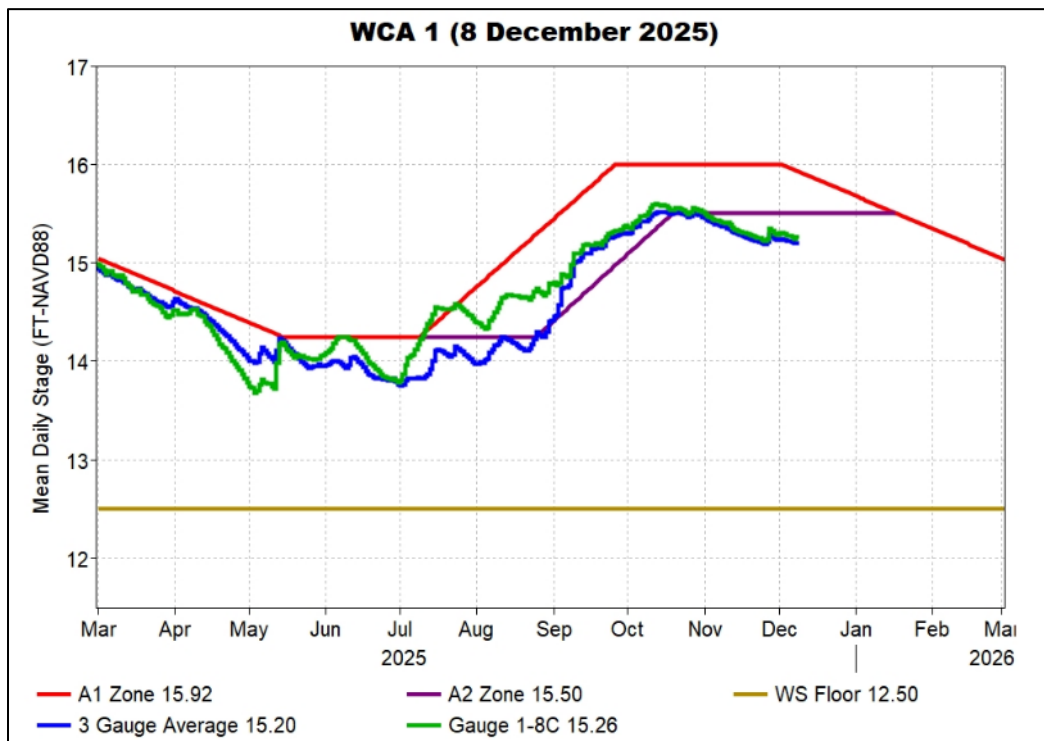


Figure EV-1. WCA-1 stage hydrographs and regulation schedule.

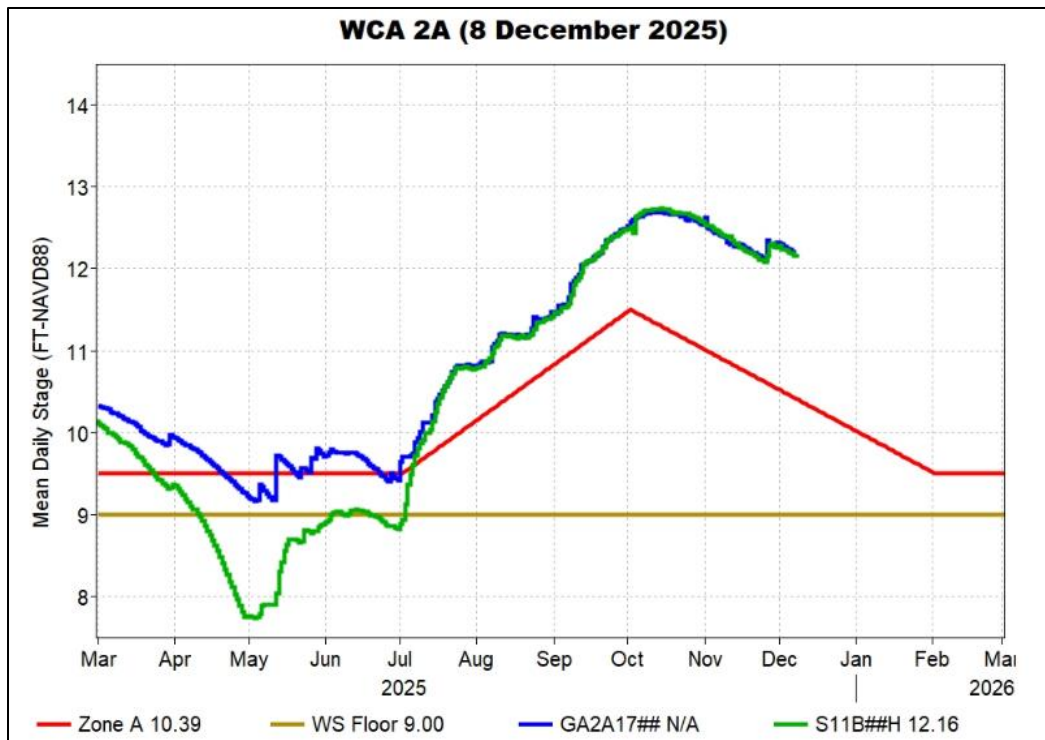


Figure EV-2. WCA-2A stage hydrographs and regulation schedule.

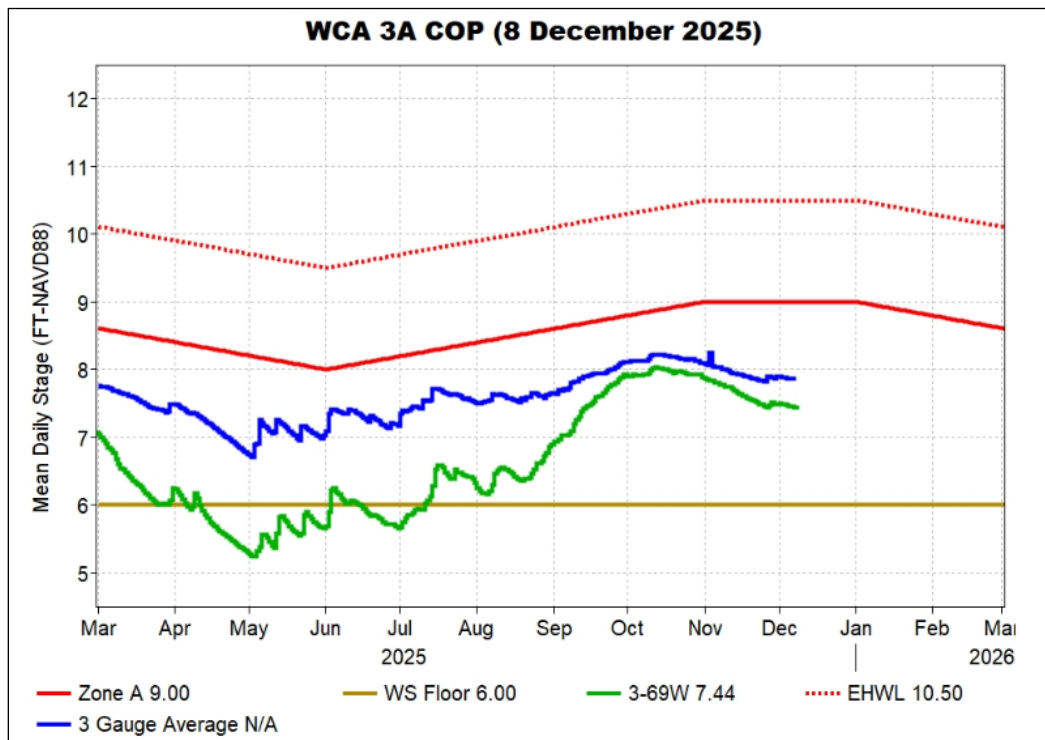


Figure EV-3. WCA-3A stage hydrographs (three-gauge average, 3-69W) and regulation schedule.

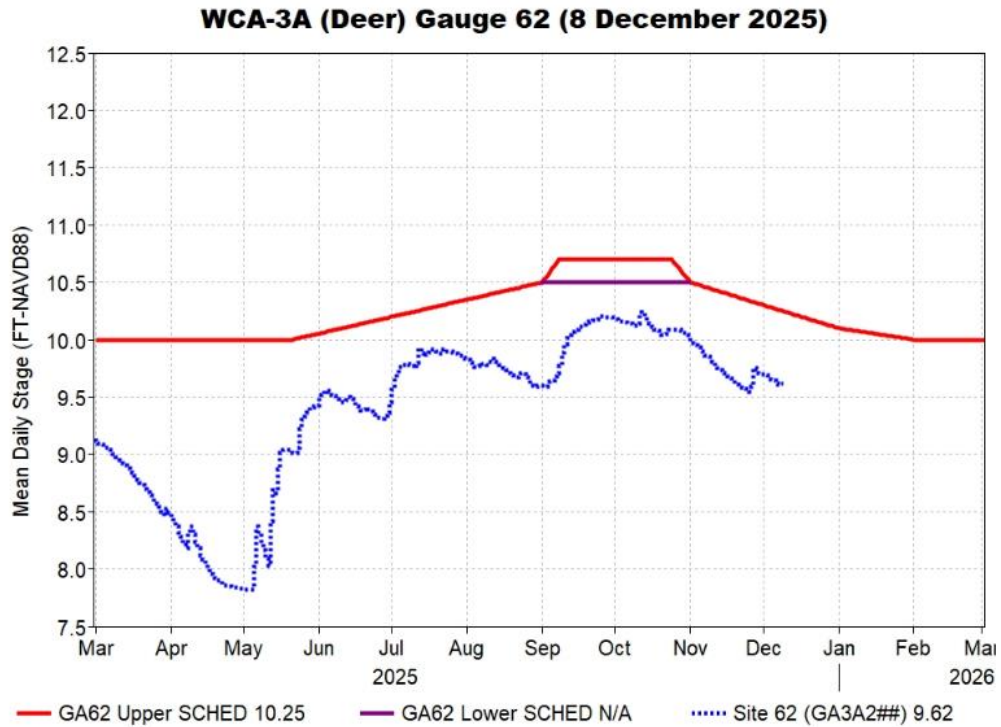


Figure EV-4. WCA-3A stage hydrograph (Deer gauge; Site 62) and regulation schedule.

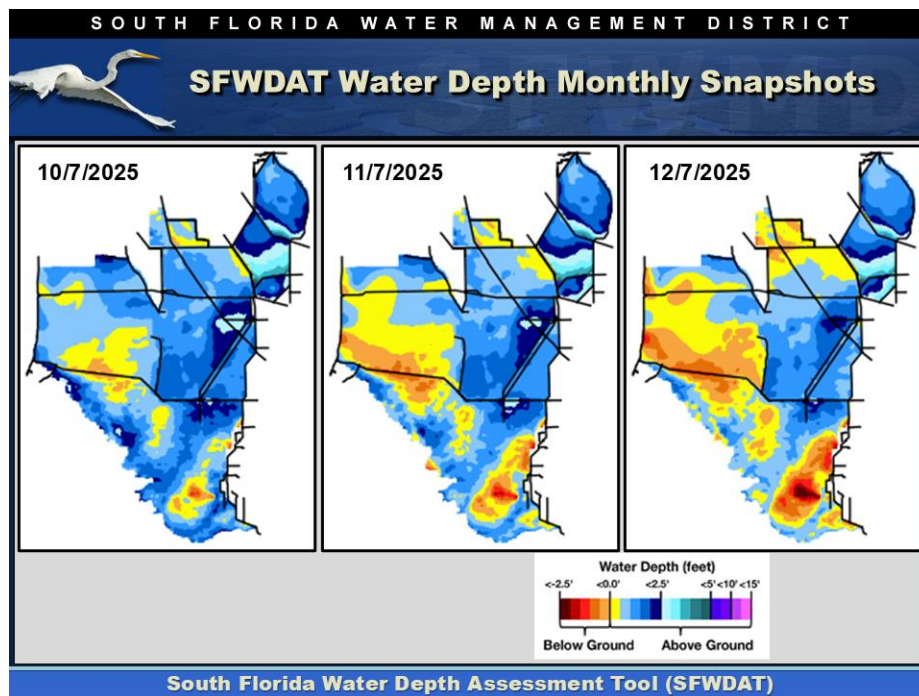


Figure EV-5. Everglades water depths from two months ago (left), one month ago (center) and present (right), based on SFWDAT.

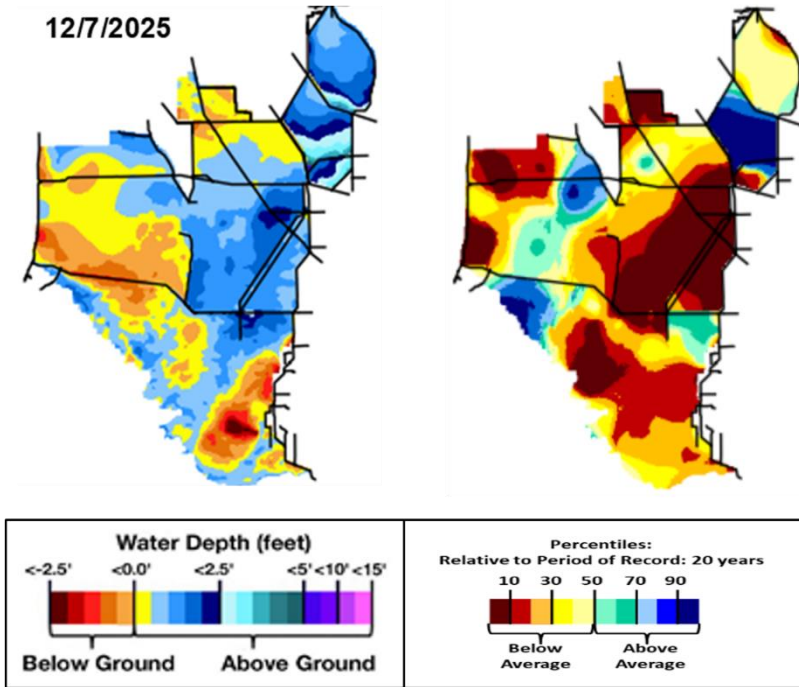


Figure EV-6. Present water depths (December 7, 2025) compared to the day of year relative to average (percentile) over the previous 20 years.

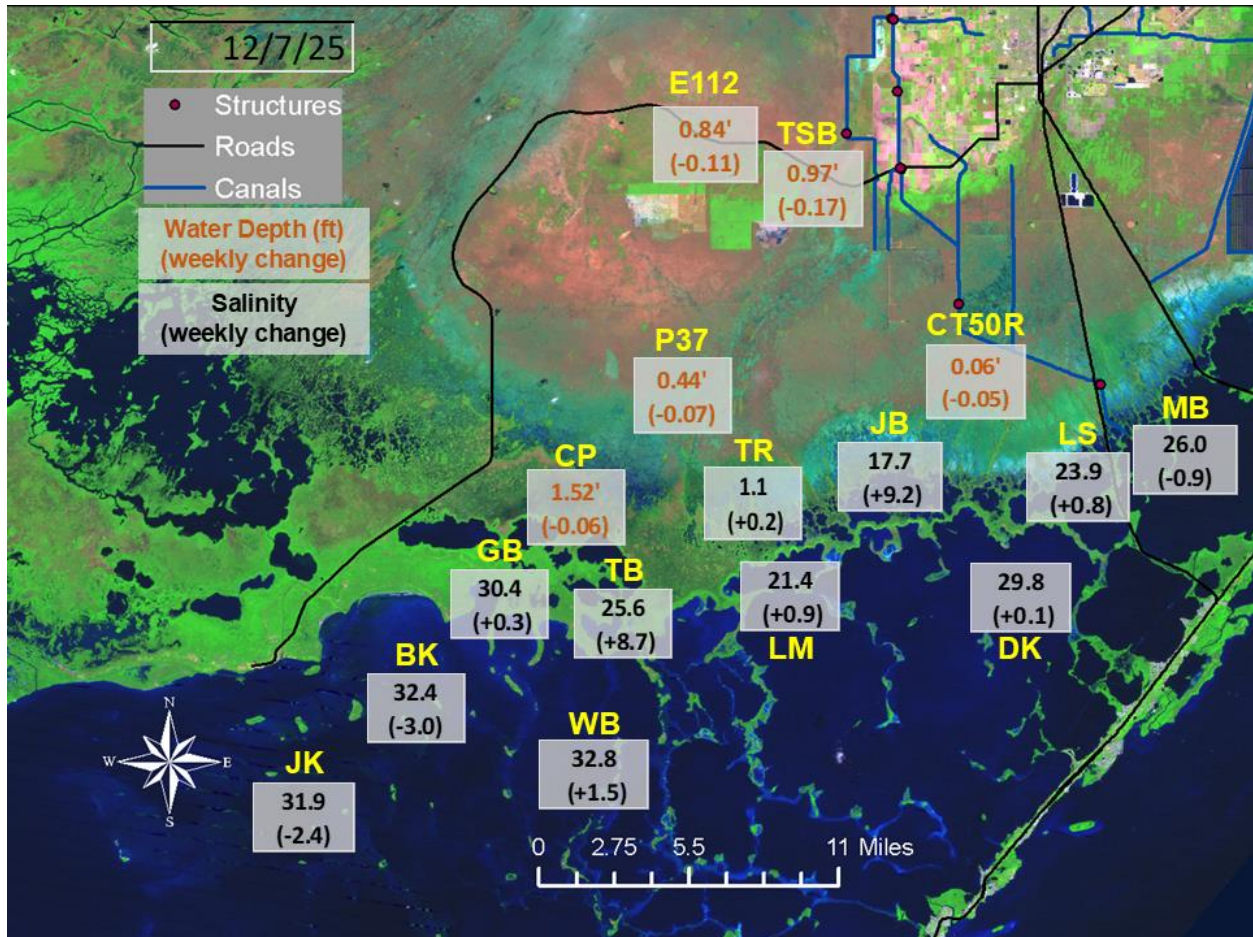


Figure EV-7. Taylor Slough water depths and Florida Bay salinities with changes since one week ago.

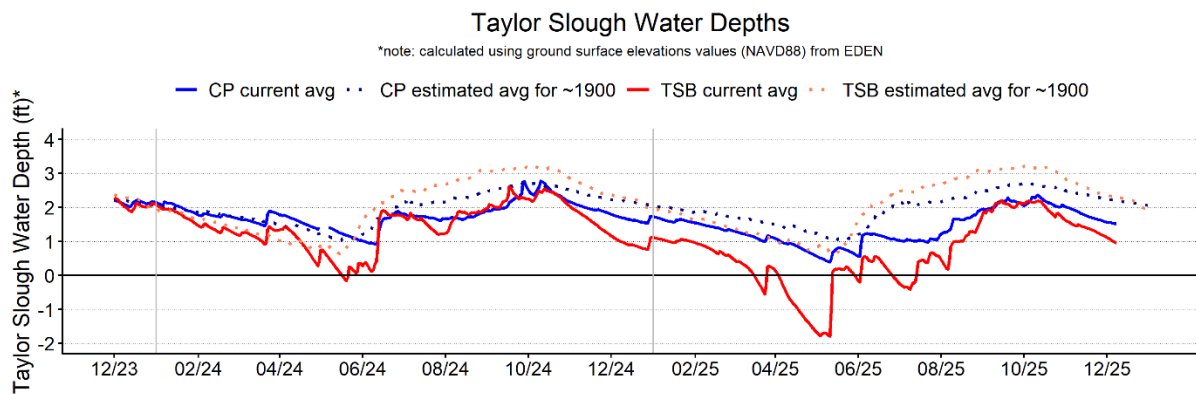


Figure EV-8. Taylor Slough water depth time series for Taylor Slough Bridge (TSB; northern slough) and Craighead Pond (CP; southern slough).

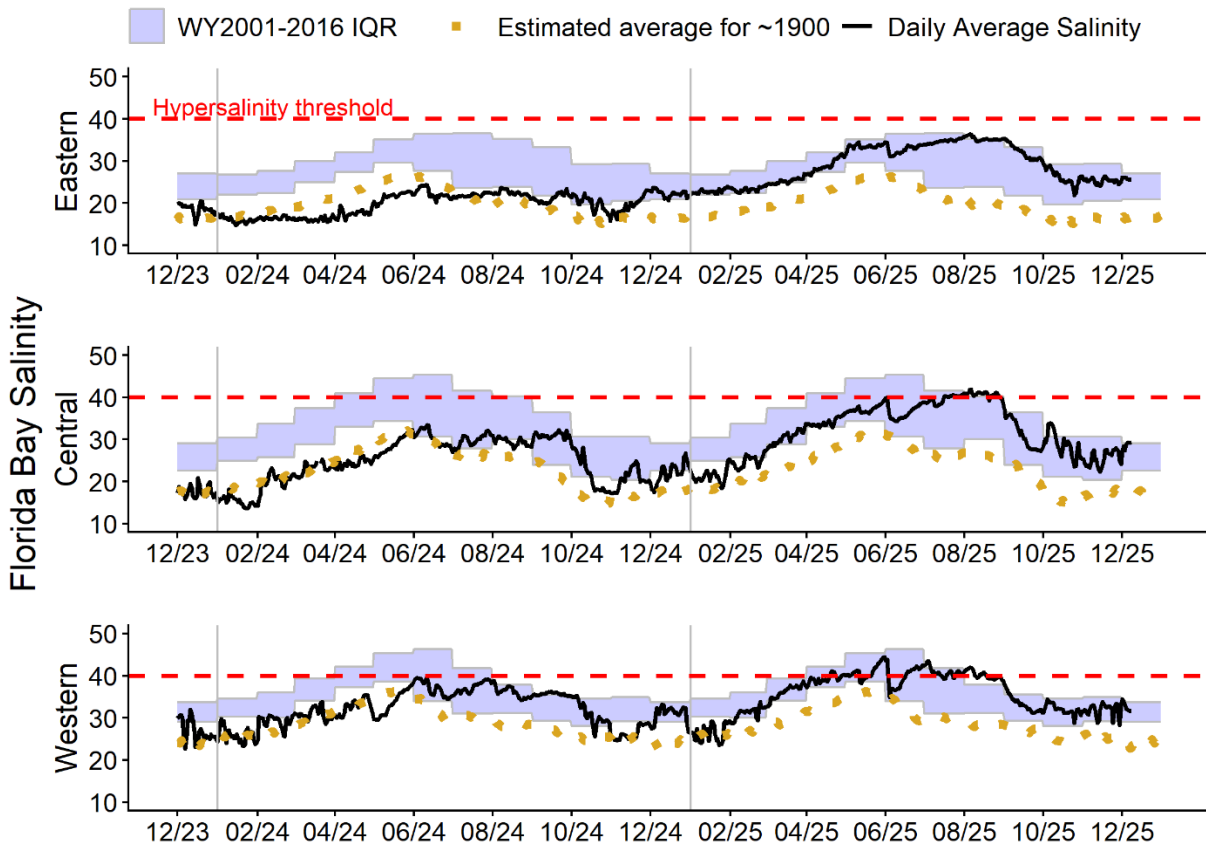


Figure EV-9. Eastern (top panel), Central (middle panel) and Western (bottom panel) Florida Bay daily average salinities with WY2001-2016 interquartile (25-75 percentile) ranges (IQR) and estimated historical daily average salinities. The hypersalinity threshold indicates the level at which salinities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

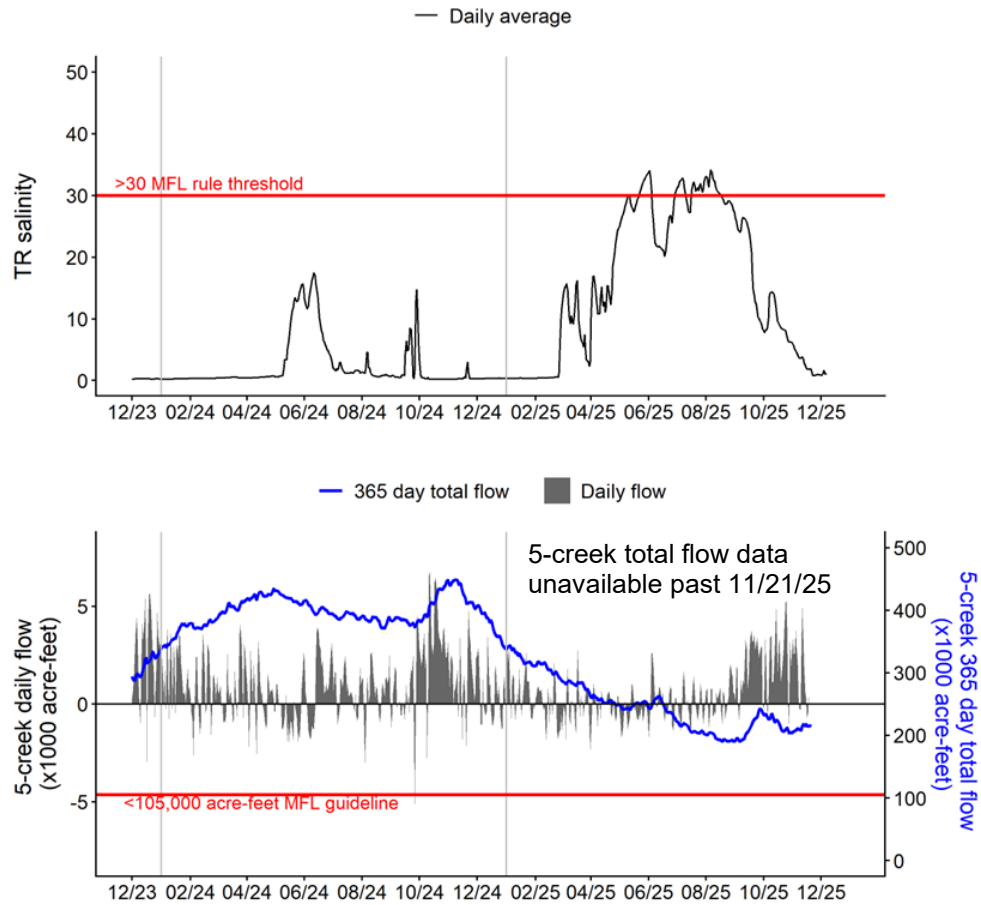


Figure EV-10. Salinity at Taylor River (TR; top) and creek inflow to Florida Bay (bottom) from the five major creeks (McCormick Creek, Taylor River, Mud Creek, Trout Creek, and West Highway Creek). The daily average salinity and 365-day total creek flow are tracked for the Florida Bay MFL criteria.

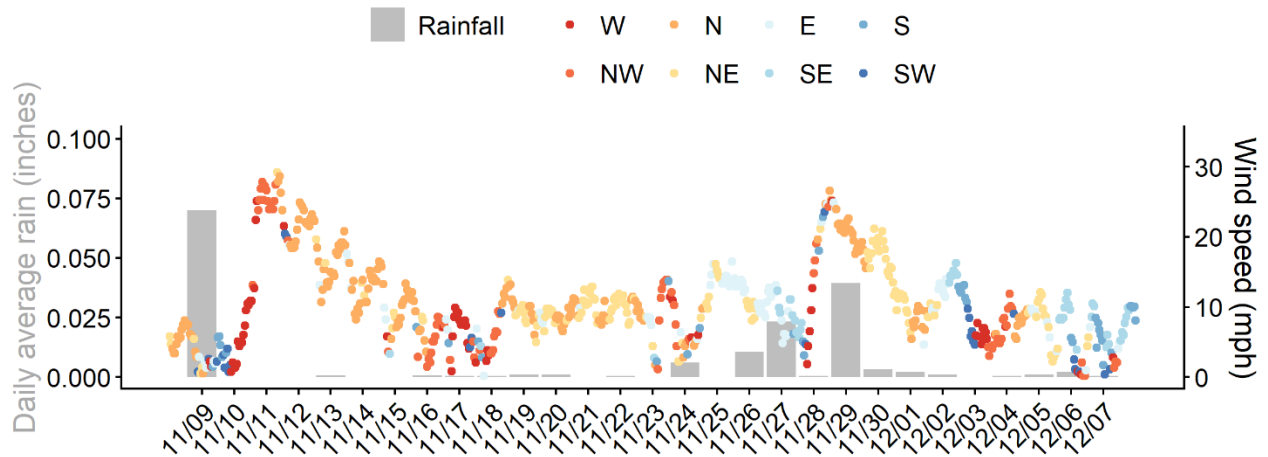


Figure EV-11. Daily average rain across Taylor Slough and Florida Bay, along with hourly average wind speed and direction (measured at Long Key) in Florida Bay over the past four weeks.

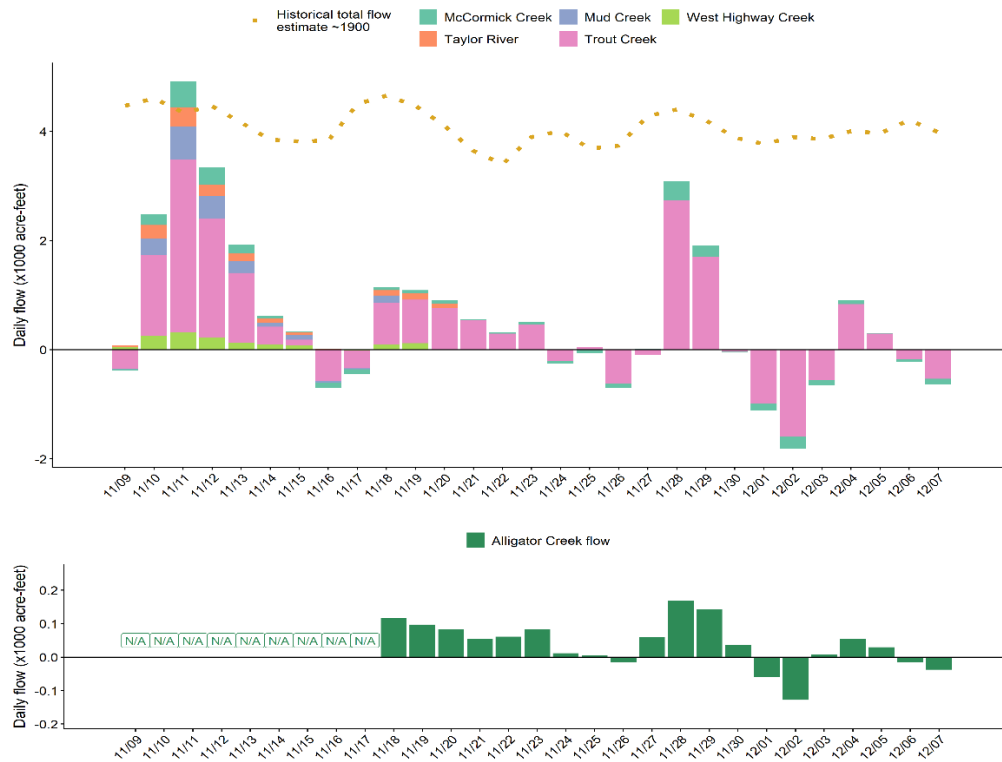


Figure EV-12. Top: daily average creek flow summed between the five major creeks with estimated historical daily flow over the past four weeks (note: data from Taylor River, Mud Creek and West Highway Creek are currently unavailable since November 21st, 2025). Bottom: Daily average Alligator Creek flow data. N/A indicates missing data.

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

SFWMD Everglades Ecological Recommendations, December 9, 2025 (red is new)			
	Weekly change	Recommendation	Reasons
WCA-1	Stage decreased by 0.05 feet.	A recession of no faster than 0.05 feet per week.	Conserve water, maintain within basin and downstream habitat and wildlife. Maintain maintenance access for vegetation management.
WCA-2A	Stage decreased by 0.12 feet	A recession of no faster than 0.12 feet per week.	Maintain within basin (north versus south) and downstream habitat and wildlife.
WCA-2B	Stage increased by 0.09 feet	A recession of no faster than 0.12 feet per week.	Protect within basin and downstream habitat and wildlife.
WCA-3A NE	Stage decreased by 0.07 feet	A recession of no faster than 0.05 feet per week.	Conserve water, maintain within basin and downstream habitat and wildlife. Provide suitable depths for aquatic prey and protect against peat soil loss during the dry season.
WCA-3A NW	Stage decreased by 0.10 feet	A recession of no faster than 0.05 feet per week.	
Central WCA-3A S	Stage decreased by 0.02 feet	A recession of no faster than 0.05 feet per week.	Conserve water, maintain within basin and downstream habitat and wildlife. Provide suitable depths for aquatic prey.
Southern WCA-3A S	Stage decreased by 0.02 feet		
WCA-3B	Stage decreased by 0.04 feet	A recession of no faster than 0.12 feet per week.	Protect within basin and downstream habitat and wildlife.
ENP-SRS	Stage decreased by 0.04 feet.	Make discharges to ENP according to COP protocol, considering up/down stream ecological conditions.	Protect within basin and upstream habitat and wildlife.
Taylor Slough	Stage changes ranged from -0.17 feet to -0.03 feet	Move water southward as possible.	When available, provide freshwater to promote water movement.
FB- Salinity	Salinity changes ranged from -3.0 to +9.2	Move water southward as possible.	When available, provide freshwater to promote water movement.