

MEMORANDUM

TO: Laureen Borochaner, Chief, Engineering Division (USACE)
FROM: John Mitnik, Chief District Engineer (SFWMMD)
DATE: June 13, 2024
SUBJECT: Operational Position Statement, June 11, 2024 to June 17, 2024

This Position Statement is to provide operational input for the one-week period from June 11, 2024 to June 17, 2024 based on system conditions and data observed during the previous Monday to Sunday 7-day period. On June 9 the daily average Lake Okeechobee stage was 11.32 feet NAVD88 (12.63 feet NGVD29), which placed it within the Low Sub-band of the 2008 Lake Okeechobee Regulation Schedule (LORS). Lake stage decreased by 0.23 feet over the preceding 7-day period.

District June rainfall to date is above normal (129% of normal). The rainfall forecast (issued June 12) calls for much above normal rainfall for the coming 7-day period and below to near normal for the following one.

Precipitation Outlook: The most recent CPC precipitation outlook for Jun 2024 is for equal chances of below, normal, and above normal rainfall (EC) for south Florida. The 3-month windows of Jun 2024 - Aug 2024 and Jul 2024 - Sep 2024 show increased chances (40-50%) of above Normal rainfall for the Kissimmee River and north, and slightly increased chances (33-40%) of above Normal rainfall for the remainder of the District. The 3-month windows of Aug 2024 – Oct 2024 shows increased chances (40-50%) of above normal rainfall for areas north of the EAA, and slightly increased chances (33-40%) of above normal for the respective remainder areas of the District. The transition into the 2024 – 2025 Dry Season goes through the 3-month window of Sep 2024 – Nov 2024 with equal chances of below, normal, and above normal (EC) for south Florida. The 3-month windows Oct 2024 – Dec 2024, Jan 2025 – Mar 2025 and Feb 2025 – Apr 2025 show outlooks for increased chances (40-50%) of below normal rainfall for the entire District. The 3-month window Nov 2024 – Jan 2025 indicates a substantial increase (50-60%) in the likelihood of above normal rainfall for the Upper Kissimmee River and north, and increased chances (40-50%) of below Normal rainfall for the remainder of the District. The 3-month window Dec 2024 – Feb 2025 shows outlooks for substantially increased chances (50-60%) of below normal rainfall for the entire District. The transition into the 2025 wet season shows equal chances (EC) of rainfall for the state of Florida.

2008 LORS Release Guidance (Part C): With Lake Okeechobee stage in the Base Flow Sub-band, the Tributary Hydrologic Conditions in the Dry category, Part C of the 2008 LORS suggests “No Releases to WCAs”.

Over the 7-day period from June 3 to June 9, 2024, a total of 8,200 acre-feet of regulatory releases were sent from Lake Okeechobee south to STA2 (900 acre-feet) and STA3/4 (7,300 acre-feet), and 800 acre-feet were sent to STA 5/6. No lake regulatory releases reached the Lake Worth Lagoon through the C-51 canal during this period. Stage in WCA-1 is below regulation schedule. Stage in WCA-2A is below regulation schedule. WCA-3A stage is below regulation schedule. For the coming operational period, USACE is not requesting maximum practicable regulatory releases be sent south from Lake Okeechobee towards the WCAs.

2008 LORS Release Guidance (Part D): With Lake Okeechobee stage in the Base Flow Sub-band, Part D of the 2008 LORS suggests “S-79 up to 450 cfs and S-80 up to 200 cfs”. In addition, Lake Okeechobee stage is 0.04 feet below elevation 11.42 feet NAVD88 (12.67 feet NGVD29) which is the stage for the upper boundary of the Ecological Envelope for this time of the year.

For the 7-day period, June 3 to June 9, 2024, total discharge to the St. Lucie Estuary was about 50 cfs, with no flows coming from Lake Okeechobee. The 7-day average salinity in the middle estuary was in the upper stressed range (> 25) for adult eastern oysters. Total inflow to the Caloosahatchee Estuary averaged approximately 1,900 cfs with about 1,250 cfs coming from Lake Okeechobee through S-77. Salinities were in the optimal range (10-25) for adult eastern oysters at Cape Coral and in the upper stressed range (> 25) at Shell Point and Sanibel.

The District will continue to work with the USACE to manage Lake Okeechobee levels in an effort to curtail harmful discharges over this year. To help with this objective the District will move as much water south through the Stormwater Treatment Areas as possible under the current permits and as regional conditions allow. The District recommends USACE implements a non-harmful release from Lake Okeechobee to the Caloosahatchee Estuary with an average discharge of 2,000 cfs (7-day pulse) as measured at the S-79 structure, zero lake releases to the St. Lucie Estuary and zero lake releases to the Lake Worth Lagoon. The USACE typically implements the releases to the estuaries starting on Saturday and ending on Friday. The USACE should continue to track Red Tide and Blue Green Algae conditions, and should conditions change during this operational period, the USACE should look to reassess releases as needed. The USACE typically implements the releases to the estuaries over a 7-day period starting on Saturday and ending on Friday.