

MEMORANDUM

TO: Luis Alejandro, Chief, Water Management Section (USACE)

FROM: John Mitnik, Chief District Engineer (SFWMD)
Akin Owosina, Chief, Hydrology & Hydraulics Bureau (SFWMD)

DATE: January 25, 2018

SUBJECT: Operational Position Statement for January 23, 2018 to January 29, 2018

This Position Statement is for the one-week period from January 23, 2018 to January 29, 2018. On January 22, 2018, Lake Okeechobee stage was 15.32 feet NGVD, in the Low Sub-band. Lake stage decreased by 0.09 feet during the preceding 7 days.

District wide rainfall for January up-to-date is below average (64%), with average to above-average rainfall observed in the East Coast, from East Broward to Martin/St. Lucie. District forecast (issued January 23) indicates slightly above-average rainfall for the coming week and near-average for the following week.

Precipitation Outlook: The most recent Climate Prediction Center (CPC) precipitation outlook for February indicates increased chances of below-normal (~45%) for the District. The outlook for the three-month window February-April increases to a more severe condition, with ~55% chance of below-normal for the entire District. The March-May window shows ~ 45% below-normal for the lake and areas north of the lake and slight chances of below-normal for the area south of the lake. The forecast transitions to equal chances of below-normal, normal and above-normal rainfall for the April-June window.

2008 LORS Release Guidance (Part C): With Lake Okeechobee stage within the Low Sub-band, the Tributary Hydrologic conditions in the Normal category and the Multi-seasonal outlook in the Normal category, Part C of the 2008 LORS release guidance recommends "Up to Maximum Practicable to the WCAs if desirable or with minimum Everglades impacts. Otherwise no releases to the WCAs".

Over the 7-day period from January 15 to January 21, 2018, a total volume of 200 acre-feet regulatory releases was sent from Lake Okeechobee to STA 1E, 3,200 acre-feet to STA 2 and 2,700 acre-feet to STA 3/4. There were 2,000 acre-feet regulatory releases from the lake to tide via C-10A, L-8 and C-51. Stage in WCA-1 remains above regulation schedule. Stage in WCA-2A remains above regulation schedule, but below the temporary deviation schedule. Stage in WCA-3A is in Zone E1 of the regulation schedule. For the coming operational period, the USACE is requesting the SFWMD to implement maximum practicable releases from the lake south to all the WCAs.

2008 LORS Release Guidance (Part D): With Lake Okeechobee stage within the Low Sub-band, the Tributary Hydrologic Conditions in the Normal category, and the lake net inflow seasonal outlook in the Dry category, Part D of the 2008 LORS release guidance suggests Base Flow releases: "S-79 Up to 450 cfs and S-80 up to 200 cfs".

Total discharge to the St. Lucie Estuary averaged 270 cfs over the past week with no releases coming from Lake Okeechobee. The 7-day average salinity at the US1 Bridge is in the good range for adult oysters. Total inflow to Caloosahatchee Estuary averaged 750 cfs over the past week with 420 cfs (56%) coming from the Lake. Salinity conditions between Val I-75 and Ft. Myers remain good for tape grass. Salinity is in the good range for adult oysters at Shell Point and at Cape Coral.

The District has considered the application of the SFWMD's Lake Okeechobee Adaptive Protocols (AP) this week since the lake stage is in the Low Sub-band and the LORS release guidance is recommending Base Flow releases. Given that the estuary does not need water, the AP recommendation is for "No S-77 releases to the Caloosahatchee Estuary ...". The District recognizes the USACE desire to manage the lake stage by making Base Flow releases per the LORS release guidance and therefore recommends continuation of releases at S-77 to supplement the target release at S-79.