

MEMORANDUM

TO: Laureen Borochaner, Chief, Engineering Division (USACE)
FROM: John Mitnik, Chief District Engineer (SFWMD)
Akin Owosina, Chief, Hydrology & Hydraulics Bureau (SFWMD)
DATE: October 3, 2019
SUBJECT: Operational Position Statement for October 1, 2019 to October 7, 2019

This Position Statement is for the one-week period from October 1, 2019 to October 7, 2019. On September 30, Lake Okeechobee stage was 13.60 feet NGVD, which places it within the Base Flow Sub-band of the 2008 Lake Okeechobee Regulation Schedule (LORS). Lake stage decreased by 0.15 feet during the preceding 7 days.

District September rainfall was well below-average (33% of normal), being the lowest September recorded rainfall at the District for the 88-year record. District rainfall forecast (issued October 1) predicts below-average rainfall for this 7-day period and above-average rainfall for the following week.

Precipitation Outlook: The most recent CPC precipitation outlooks for October 2019 calls for slightly increased chances of above normal rainfall for the area north of Lake Okeechobee and for increased chances of above normal rainfall for the remainder of the District (includes Lake Okeechobee and the Caloosahatchee and St. Lucie basins). The 3-month window Oct-Dec precipitation outlook is for increased chances of above normal rainfall for south Florida. The CPC precipitation outlooks for all the 3-month windows from Nov 2019-Jan 2020 to Oct-Dec (2020) are for equal chances of above-normal, normal, or below-normal rainfall for south Florida.

2008 LORS Release Guidance (Part C): With Lake Okeechobee stage within the Base Flow Sub-band, the Tributary Hydrologic Conditions in the Normal category and the Multi-Seasonal Lake Okeechobee Net Inflow Outlook in the Normal classification, Part C of the 2008 LORS suggests "Up to Maximum Practicable Releases to the WCAs if Desirable or with Minimum Everglades Impact".

Over the 7-day period from September 16 to September 23, 2019, no Lake Okeechobee regulatory releases were sent south to the STAs, except for STA 3/4 which captured 300 acre-feet of lake releases. Lake Okeechobee regulatory releases were not sent to the Lake Worth Lagoon through the C-51 canal. Stage in WCA-1 is in Zone B below regulation schedule. Stage in WCA-2A is in Zone B below regulation schedule. WCA-3A stage is in Zone D of the regulation schedule. For the coming operational period, the USACE is recommending the SFWMD not implement maximum practicable Lake Okeechobee regulatory releases south to 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 450cfs and S-80 Up to 200 cfs".

Total discharge to the St. Lucie Estuary averaged approximately 225 cfs over the past week with no releases from Lake Okeechobee. The 7-day average salinity at the US1 Bridge is in the good range for adult oysters. Total inflow to the Caloosahatchee Estuary averaged approximately 225 cfs over the past week with no releases coming from Lake Okeechobee. Salinity conditions between Val I-75 and Ft. Myers remain good for tape grass. Salinities are in the good range for adult eastern oysters at Shell Point and Cape Coral locations and in the fair range at Sanibel.

The District, in coordination with the Florida Department of Environmental Protection (FDEP), has considered the system conditions this week. Given the current conditions in the Estuary, the District recommends the USACE follow LORS2008, and that releases be reevaluated on a weekly basis in order to increase flexibility of decision making based on current conditions.