LORS2008 Implementation on 11/26/2012 (ENSO Neutral Condition):

Water Supply Department Technical Input

Water Supply Outlook:

District wide, Raindar rainfall 0.0 inches for the week ending 11/26/2012. Lake stage on 11/25/2012 is 15.23 ft, down 0.15 ft from last week.

The updated November 2012 SFWMM Position Analysis <u>percentile graph</u> and <u>tracking</u> <u>chart</u> for Lake Okeechobee show that the lake stage is in the Low Operational Sub-Band.

The LORS2008 tributary <u>indices</u> are classified as **Normal**. The PDSI indicates normal condition and the LONIN is dry. The classification is based on the wetter of the two.

Area	Indicator	Value	Color Coded Scoring Scheme	
LOK	Projected LOK Stage for the next two months	Low Sub-Band	М	
	Palmer Index for LOK Tributary Conditions	-0.08 (Normal in the Normal to Extremely Wet range)	L	
	CPC Presinitation Outlook	1 month: Normal	L	
	CPC Precipitation Outlook	3 months: Normal	L	
	LOK Seasonal Net Inflow Forecast	0.15 ft	М	
	AMO warm/ENSO Neutral	(Dry)		
	LOK Multi-Seasonal Net Inflow Forecast		L	
	AMO warm/ENSO Neutral	3.81 ft (vvet)		
WCAs	WCA 1: 3 Station Average (Site 1-7, 1-8T, 1-9)	Above Line 1 (16.88 ft)	L	
	WCA 2A: Site 2-17 HW	Above Line 1 (12.97 ft)	L	
	WCA-3A: 3 Station Average (Site 63, 64 and 65)	Above Line 1 (10.79 ft)	L	
LEC	Service Area 1	Year-Round Irrigation Rule in effect	L	
	Service Area 2	Year-Round Irrigation Rule in effect	L	
	Service Area 3	Year-Round Irrigation Rule in effect	L	

Water Supply Risk Evaluation

Note: The water supply risk classification based on the Palmer index, as well as the LOK seasonal and multi-seasonal net inflow forecasts use slightly different classification intervals than those used by the 2008-LORS for classifying the tributary hydrologic condition (THC).

Back to Lake Okeechobee Operations Main Page

Back to U.S. Army Corps of Engineers LORSS Homepage

Application of the Lake Okeechobee Regulation Schedule (LORS2008) on 11/26/2012 (ENSO Neutral Condition)

Lake Okeechobee Net Inflow Outlook:

The Lake Okeechobee Net Inflow Outlook has been computed using 4 methods: Croley's method¹, the SFWMD empirical method², a sub-sampling of Neutral years³ and a sub-sampling of warm years of the Atlantic Multidecadal Oscillation (AMO) in combination with Neutral ENSO years⁴. The results for Croley's method and the SFWMD empirical method are based on the <u>CPC Outlook</u>.

Table of the Lake Okeechobee Net Inflow Outlooks in feet of equivalent depth. All methods are updated on a weekly basis with observed net inflow for the current month.

Season	Croley's Method ¹		SFWMD Empirical Method ²		Sub-sampling of Neutral ENSO Years ³		Sub-sampling of AMO Warm + Neutral ENSO Years ⁴	
	Value (ft)	Condition	Value (ft)	<u>Condition</u>	Value (ft)	Condition	Value (ft)	Condition
Current (Nov- Apr)	0.23	Dry	0.18	Dry	0.09	Dry	0.15	Dry
Multi Seasonal (Nov- Oct)	2.91	Wet	2.52	Wet	2.56	Wet	3.81	Wet

See <u>Seasonal</u> and <u>Multi-Seasonal</u> tables for the classification of Lake Okeechobee Outlooks.

The recommended methods and values for estimating the Lake Okeechobee Net Inflow Outlook are shaded and should be used in the LORS2008 Release Guidance Flow Charts.

Tributary Hydrologic Conditions Graph:

-1615 cfs 14-day running average for Lake Okeechobee Net Inflow through 11/25/2012. According to the classification in <u>Tributary Hydrologic Conditions</u> table, this condition is Dry.

-0.08 for Palmer Index on 11/24/2012.

According to the classification in <u>Tributary Hydrologic Conditions</u> table, this condition is Near Normal.

The wetter of the two conditions above is Normal.

LORS2008 Classification Tables:

Lake Okeechobee Stage on 11/25/2012

Lake Okeechobee Stage: 15.23 feet

USACE Report for Lake Okeechobee

Lake Okeechobee Stage Hydrograph

Lake Okeechob	ee Management	Bottom Elevation	Current
Zone/	Band	(feet, NGVD)	Lake Stage
High Lake Manage	omont Band	17.05	
T light Lake Manaye		17.20	
	High sub-band	16.88	
Operational Band	Intermediate sub-band	16.25	
	Low sub-band	14.50	← 15.23
Base Flow sub-ba	nd	12.76	
Beneficial Use sub	o-band	12.47	
Water Shortage M	anagement Band		

Part C of LORS2008: Discharge to WCA's

Release Guidance Flow Chart Outcome:

Up to maximum practicable releases to WCA's if desirable OR with minimum impact to the Everglades

Part D of LORS2008: Discharge to Tidewater

Release Guidance Flow Chart Outcome: S-79 up to 450 cfs and S-80 up to 200 cfs

Technical Input Summaries from:

- Lake Okeechobee Division
- <u>Coastal Ecosystems</u>
- Everglades Ecosystems Division
- Water Supply Department
- Water Resource Management Release Recommendation
- Kissimmee Watershed Environmental Conditions
- Operations Department

Back to Lake Okeechobee Operations Main Page

Back to U.S. Army Corps of Engineers LORSS Homepage

Lake Okeechobee SFWMM November 2012 Position Analysis



(See assumptions on the Position Analysis Results website)

Mon Nov 26 16:20:07 EST 2012



Lake Okeechobee Position Analysis Comparisons Jun 2012 – Nov 2012 Initialization Stages (11.68; 12.02; 12.12; 13.95; 15.63; 15.77 feet)

Mon Nov 26 16:20:43 EST 2012

LORS2008 Schedule Plotted



Tributary Basin Condition Indicators as of November 26 2012

Palmer Index*

⁼low (cfs)

Tue Nov 27 10:06:50 2012

2008 LORS

Part C: Establish Allowable Lake Okeechobee Releases to the Water Conservation Areas



2008 LORS

Part D: Establish Allowable Lake Okeechobee Releases to Tide (Estuaries)

