Application of the Lake Okeechobee Regulation Schedule (LORS2008) on 06/15/2020 (ENSO Neutral Condition)

Lake Okeechobee Net Inflow Outlook:

The Lake Okeechobee Net Inflow Outlook has been computed using 4 methods: Croley's method[1], the SFWMD empirical method[2], a sub-sampling of Neutral years[3] and a sub-sampling of warm years of the Atlantic Multi-decadal Oscillation (AMO) in combination with La Nina ENSO years[4]. The results for Croley's method and the SFWMD empirical method are based on the CPC Outlook.

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)	Condition	Value (ft)	Condition	Value (ft)	Condition
Current (Jun-Nov)	N/A	N/A	3.14	Very Wet	3.14	Very Wet	4.42	Very Wet
Multi Seasonal (Jun-Apr)	N/A	N/A	3.57	Wet	3.34	Wet	4.73	Very Wet

*Croley's Method Not Produced for This Report

See Seasonal and Multi-Seasonal 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.

**Sub-sampling is a weighted average of ENSO conditions based on the ENSO forecast used.

Tributary Hydrologic Conditions Graph:

7623 cfs 14-day running average for Lake Okeechobee Net Inflow through 06/15/2020.
According to the classification in Tributary Hydrologic Conditions table, this condition is Very Wet.

-1.13 for Palmer Drought Index on 06/13/2020.
According to the classification in Tributary Hydrologic Conditions table, this condition is Normal.

The wetter of the two conditions above is **Very Wet**.

LORS2008 Classification Tables:

Lake Okeechobee Stage on 06/15/2020

Lake Okeechobee Stage: **12.20 feet**

Lake Okeechobee Management Zone/Band		Bottom Elevation (feet, NGVD)	Current Lake Stage
High Lake Management Band		16.06	
Operational Band	High sub-band	15.58	
	Intermediate sub-band	15.10	
	Low sub-band	13.13	
Base Flow sub-band		12.60	
Beneficial Use sub-band		10.77	← 12.20 ft
Water Shortage Management Band			

Part C and Part D of LORS2008:

With Lake Okeechobee stage below the Base-Flow Sub-Band, Part C **nor** Part D of the 2008 LORS suggest releases to the WCAs or Estuaries required to manage lake stages.

Adaptive Protocol's Release Guidance: Caloosahatchee Estuary

The SFWMD's Lake Okeechobee Adaptive Protocol's Release Guidance suggests no S-77 release to the Caloosahatchee Estuary unless the Governing Board recommends otherwise.

LORS2008 Implementation on 06/15/2020 (ENSO Neutral Condition):

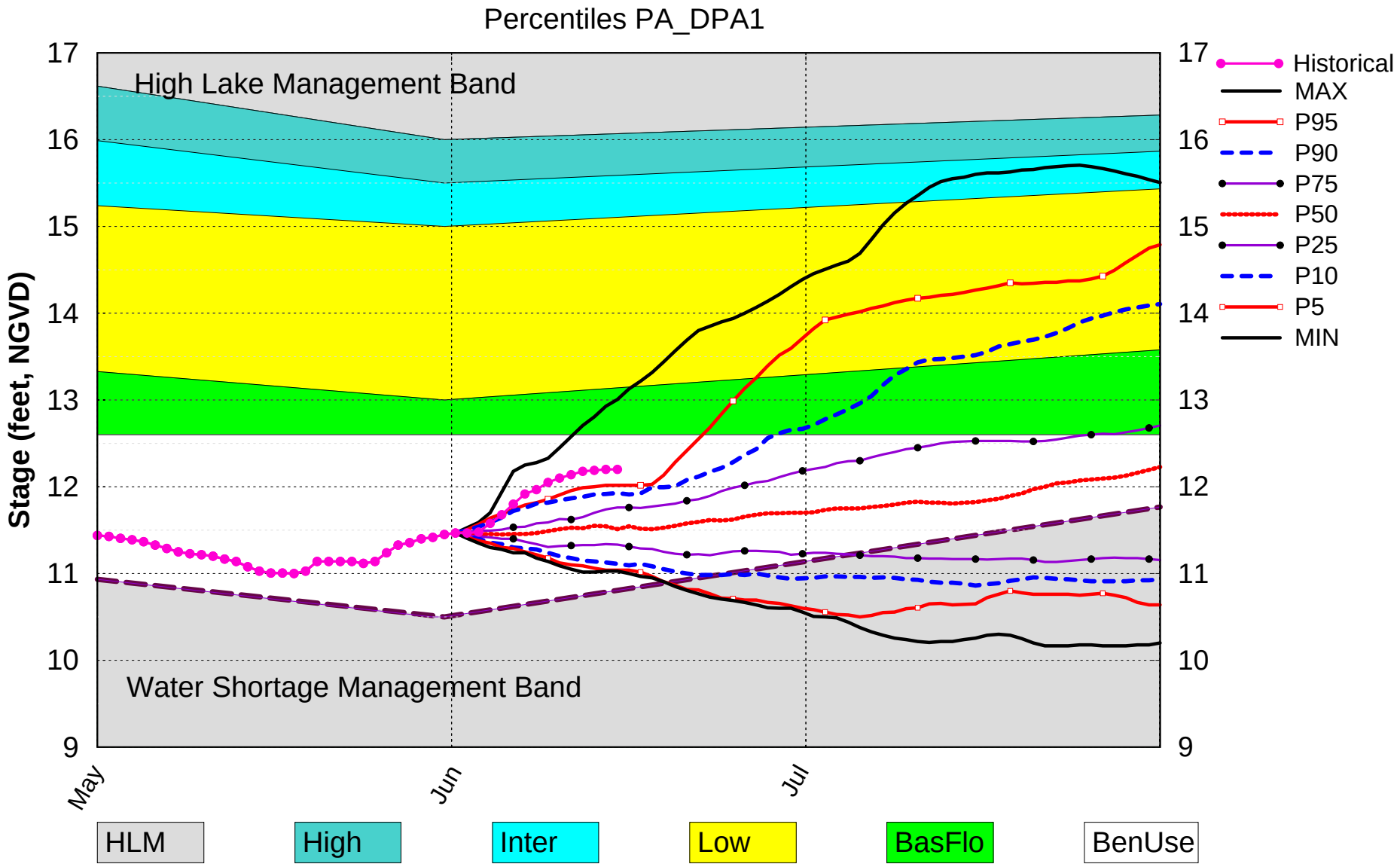
Status for week ending on 6/15/2020:

Water Supply Risk Evaluation

Area	Indicator	Value	Color Coded Scoring Scheme
LOK	Projected LOK Stage for the next two months	Base Flow sub band	M
	Palmer Index for LOK Tributary Conditions	-0.92 (June 6) (Normal to Extremely Wet)	L
	CPC Precipitation Outlook	1 month: Above Normal	L
		3 months: Above Normal	L
	LOK Seasonal Net Inflow Outlook	3.14 ft	L
	ENSO Forecast (positive)	Normal to Extremely Wet	
	LOK Multi-Seasonal Net Inflow Outlook	3.34 ft	L
	ENSO Forecast (positive)	Wet	
WCAs	WCA 1: 3 Station Average (Site 1-7, 1-8T and 1-9)	Above Line 1 (16.20 ft)	L
	WCA 2A: Site 2-17	Above Line 1 (12.64 ft)	L
	WCA-3A: 3 Station Average (Site 63, 64 and 65)	Above Line 1 (9.86 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

Note: The water supply risk classification based on the Palmer index, as well as the LOK seasonal and multi-seasonal net inflow outlooks use slightly different classification intervals than those used by the 2008-LORS.

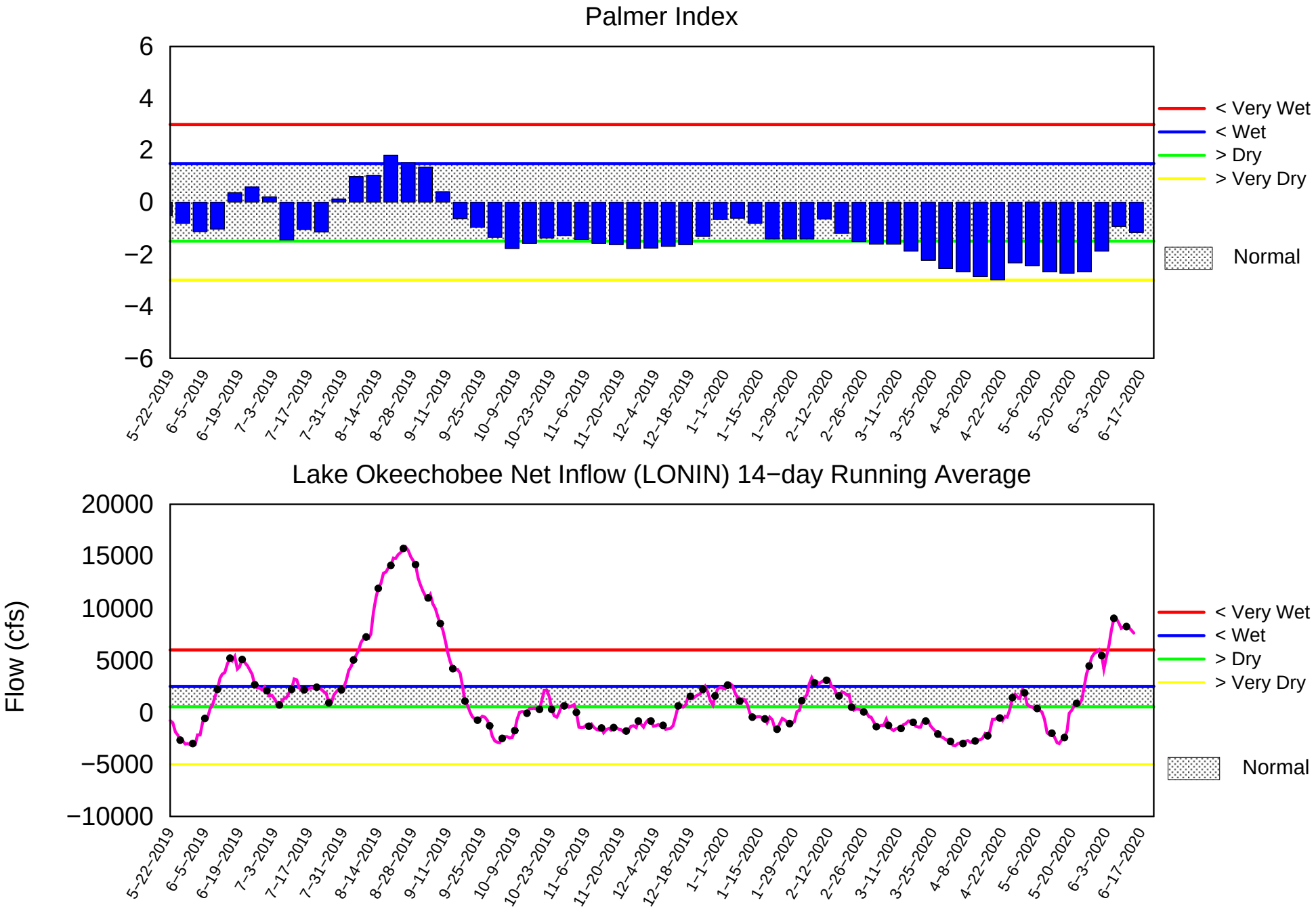
Lake Okeechobee SFWMM Jun 2020 Position Analysis



(See assumptions on the Position Analysis Results website)

Mon Jun 15 21:54:18 EDT 2020

Tributary Basin Condition Indicators as of June 15 2020



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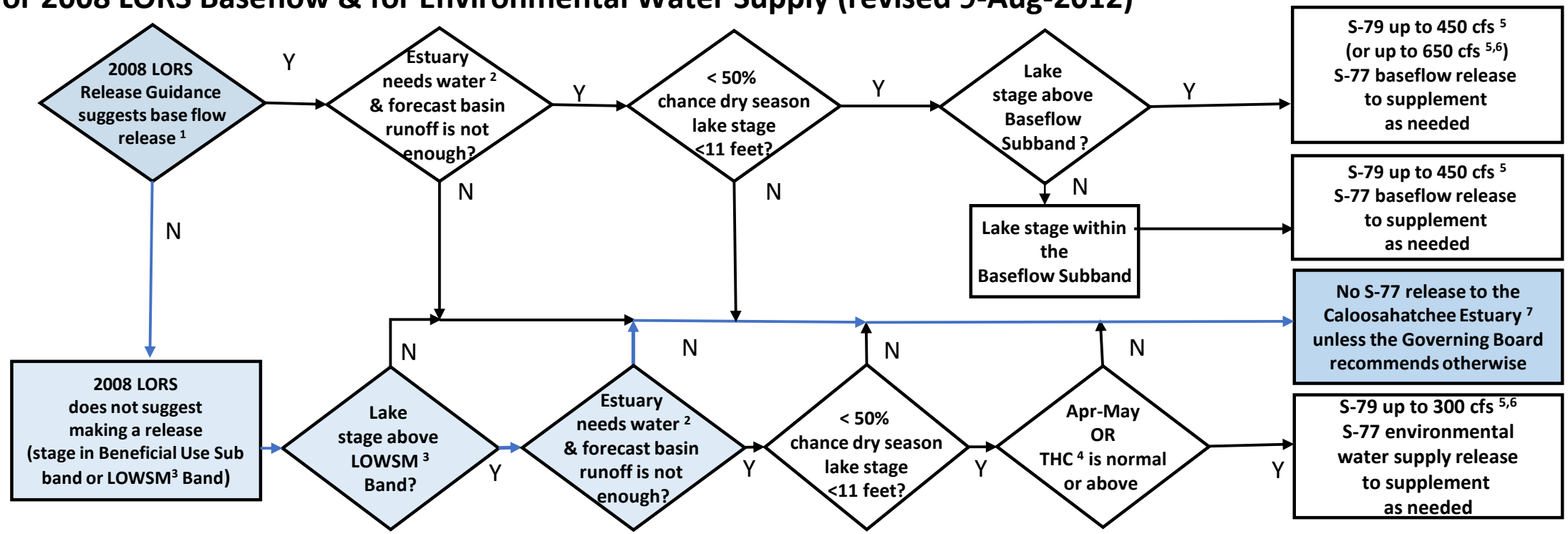
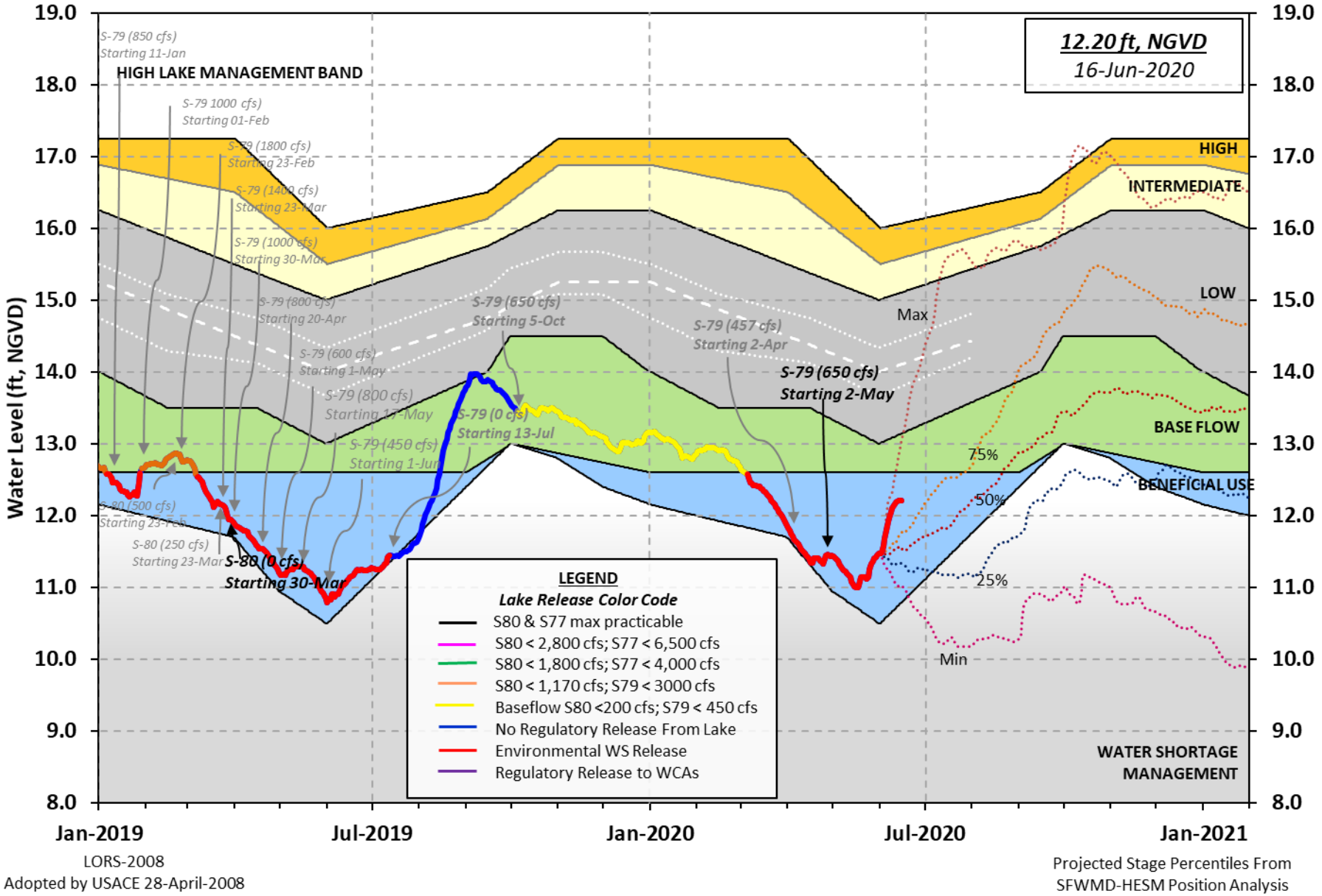
Flowchart to Guide Recommendations for Lake Okeechobee Releases to the Caloosahatchee Estuary for 2008 LORS Baseflow & for Environmental Water Supply (revised 9-Aug-2012)



[1]The 2008 LORS Release Guidance (Part D) can suggest baseflow releases in the Intermediate, Low, or Baseflow Subbands.
[2]Estuary "needs" water when the 30-day moving average salinity at I-75 bridge is projected to exceed 5 practical salinity units (psu) within 2 weeks.
[3]LOWSM = Lake Okeechobee Water Shortage Management.
[4]Tributary Hydrologic Condition (THC) is based on classification of Lake Okeechobee Net Inflow and Palmer Index.
[5]Can release less than the "up to" limit if lower release is sufficient to reach or sustain desired estuary salinity; cfs = cubic feet per second.
[6]After reviewing conditions in Water Conservation Areas (WCAs), Stormwater Treatment Areas (STAs), ENP, St. Lucie Estuary and Lake Okeechobee.
[7]Should this condition be reached, the Governing Board will be briefed at their next regularly scheduled meeting as part of the State of the Water Resources agenda item.

Lake Okeechobee Water Level History and Projected Stages



LORS-2008
Adopted by USACE 28-April-2008

Projected Stage Percentiles From
SFWMD-HESM Position Analysis

U. S. Army Corps of Engineers, Jacksonville District
Lake Okeechobee and Vicinity Report
** Preliminary Data - Subject to Revision **

Data Ending 2400 hours 14 JUN 2020

Okeechobee Lake Regulation	Elevation (ft-NGVD)	Last Year (ft-NGVD)	2YRS Ago (ft-NGVD)	
*Okeechobee Lake Elevation	12.20	11.08	14.10	(Official Elv)

Bottom of High Lake Mngmt= 16.06 Top of Water Short Mngmt= 10.77
Currently in Operational Management Band

Simulated Average LORS2008 [1965-2000] 12.02
Difference from Average LORS2008 0.18

14JUN (1965-2007) Period of Record Average 13.18
Difference from POR Average -0.98

Today Lake Okeechobee elevation is determined from the 4 Int & 4 Edge stations

++Navigation Depth (Based on 2007 Channel Condition Survey) Route 1 ÷ 6.14'
++Navigation Depth (Based on 2008 Channel Condition Survey) Route 2 ÷ 4.34'
Bridge Clearance = 51.32'

---

4 Interior and 4 Edge Okeechobee Lake Average (Avg-Daily values):

L001	L005	L006	LZ40	S4	S352	S308	S133
12.16	12.26	12.23	12.17	12.26	12.29	12.11	12.10

*Combination Okeechobee Avg-Daily Lake Average = 12.20 (*See Note)

Okeechobee Inflows (cfs):

S65E	965	S65EX1	617	Fisheating Cr	532
S154	0	S191	131	S135 Pumps	0
S84	222	S133 Pumps	0	S2 Pumps	0
S84X	93	S127 Pumps	0	S3 Pumps	0
S71	0	S129 Pumps	0	S4 Pumps	0
S72	80	S131 Pumps	0	C5	0

Total Inflows: 2641

Okeechobee Outflows (cfs):

S135 Culverts	0	S354	0	S77	2
S127 Culverts	0	S351	0	S308	-147
S129 Culverts	0	S352	0		
S131 Culverts	0	L8 Canal Pt	-85		

Total Outflows: -230

****S77 structure flow is being used to compute Total Outflow.
****S308 below flow meter is being used to compute Total Outflow.

Okeechobee Pan Evaporation (inches):

S77	0.22	S308	0.10

Average Pan Evap x 0.75 Pan Coefficient = 0.12" = 0.01'

Lake Average Precipitation using NEXRAD: = 0.07" = 0.01'

Evaporation - Precipitation: = 0.05" = 0.00'
Evaporation - Precipitation using Lake Area of 730 square miles
is equal to 981 cfs out of the lake.
Lake Okeechobee (Change in Storage) Flow is 0 cfs or 0 AC-FT

	Headwater Elevation (ft-msl)	Tailwater Elevation (ft-msl)	Disch (cfs) (I) see note at bottom	Gate Positions #1 (ft)	#2 (ft)	#3 (ft)	#4 (ft)	#5 (ft)	#6 (ft)	#7 (ft)	#8 (ft)
North East Shore											
S133 Pumps:	13.29	12.18	0	0	0	0	0	0	(cfs)		
S193:											
S191:	19.37	12.20	131	0.0	0.0	0.2					
S135 Pumps:	13.37	12.11	0	0	0	0	0		(cfs)		
S135 Culverts:			0	0.0	0.0						
North West Shore											
S65E:	21.02	12.22	965	0.6	0.5	0.0	0.5	0.5	0.5		
S65EX1:	21.02	12.22	617								
S127 Pumps:	13.39	12.24	0	0	0	0	0	0	(cfs)		
S127 Culvert:			0	0.0							
S129 Pumps:	12.81	12.85	0	0	0	0			(cfs)		
S129 Culvert:			0	0.0							
S131 Pumps:	12.83	12.22	0	0	0				(cfs)		
S131 Culvert:			0								
Fisheating Creek											
nr Palmdale		32.39	532								
nr Lakeport											
C5:		-NR-	0	-NR-	-NR-	-NR-					
South Shore											
S4 Pumps:	12.15	12.21	0	0	0	0			(cfs)		
S169:	12.22	12.21	49	5.0	5.0	5.0					
S310:	12.11		50								
S3 Pumps:	9.25	12.20	0	0	0	0			(cfs)		
S354:	12.20	9.25	0	0.0	0.0						
S2 Pumps:	9.12	-NR-	0	0	0	0	0		(cfs)		
S351:	-NR-	9.12	0	0.0	0.0	0.0					
S352:	12.29	9.21	0	0.0	0.0						
C10A:	-NR-	12.36		8.0	8.0	8.0	0.0	0.0			
L8 Canal PT		12.20	-85								
S351 and S352 Temporary Pumps/S354 Spillway											
S351:	9.12	-NR-	0	-NR-	-NR-	-NR-	-NR-	-NR-	-NR-		
S352:	9.21	12.29	0	-NR-	-NR-	-NR-	-NR-				
S354:	9.25	12.20	0	-NR-	-NR-	-NR-	-NR-				
Caloosahatchee River (S77, S78, S79)											
S47B:	12.22	10.97		0.0	0.0						
S47D:	10.96	10.96	11	4.6							

```
  S77:
    Spillway and Sector Preferred Flow:
               12.20     10.87       0  0.0  0.0  0.0  0.0
    Flow Due to Lockages+:           2

  S78:
    Spillway and Sector Flow:
               10.89      3.02     400    2.0  0.0  0.0  0.0
    Flow Due to Lockages+:          16

  S79:
    Spillway and Sector Flow:
                3.13      1.77    1711    1.0  1.0  2.0  2.0  0.0  0.0  0.0  0.0
    Flow Due to Lockages+:          10
    Percent of flow from S77         0%
    Chloride            (ppm)      0


St. Lucie Canal (S308, S80)
  S308:
    Spillway and Sector Preferred Flow:
               12.12     12.18    -147  3.0  3.0  3.0  3.0
    Flow Due to Lockages+:           0

  S153:        19.06     11.96      88    0.0  0.0
  S80:
    Spillway and Sector Flow:
               12.17      0.66       0    0.0  0.0  0.0  0.0  0.0  0.0  0.0
    Flow Due to Lockages+:          18
    Percent of flow from S308   NA  %

  Steele Point Top Salinity    (mg/ml) ****
  Steele Point Bottom Salinity (mg/ml) ****

  Speedy Point Top Salinity    (mg/ml) 3728
  Speedy Point Bottom Salinity (mg/ml) 8986

 + Flow Due to lockages is computed utilizing average daily headwater and
   tailwater along with total number of lockages for the day to calculate
   a volume which is then converted to an average discharge in cfs.
++ Preferred flow is determined from either the spillway discharge or the below flow meter daily
```

Daily Precipitation Totals	1-Day (inches)	3-Day (inches)	7-Day (inches)	----- Wind ---- Direction (Degø)	Speed (mph)
S133 Pump Station:	-NR-	0.00	0.00		
S193:	-NR-	0.00	0.00	-NR-	-NR-
Okeechobee Field Station:	-NR-	0.00	0.00		
S135 Pump Station:	-NR-	0.00	0.00		
S127 Pump Station:	-NR-	0.00	0.00		
S129 Pump Station:	-NR-	0.00	0.00		
S131 Pump Station:	-NR-	0.00	0.00		
S77:	30.62	30.67	31.58	323	2
S78:	13.38	13.48	13.55	45	2
S79:	15.27	15.38	16.31	147	2
S4 Pump Station:	-NR-	0.00	0.00		
Clewiston Field Station:	-NR-	0.00	0.00		
S3 Pump Station:	-NR-	0.00	0.00		
S2 Pump Station:	-NR-	0.00	0.00		
S308:	54.87	54.87	55.44	60	1
S80:	31.53	31.60	31.60	82	1
Okeechobee Average	42.74	6.58	6.69		

(Sites S78, S79 and S80 not included)

Oke Nexrad Basin Avg	0.07	0.10	0.70

Okeechobee Lake Elevations	14 JUN 2020	12.20	Difference from 14JUN20
14JUN20 -1 Day =	13 JUN 2020	12.20	0.00
14JUN20 -2 Days =	12 JUN 2020	12.19	-0.01
14JUN20 -3 Days =	11 JUN 2020	12.18	-0.02
14JUN20 -4 Days =	10 JUN 2020	12.14	-0.06
14JUN20 -5 Days =	09 JUN 2020	12.10	-0.10
14JUN20 -6 Days =	08 JUN 2020	12.05	-0.15
14JUN20 -7 Days =	07 JUN 2020	11.97	-0.23
14JUN20 -30 Days =	15 MAY 2020	11.01	-1.19
14JUN20 -1 Year =	14 JUN 2019	11.08	-1.12
14JUN20 -2 Year =	14 JUN 2018	14.10	1.90

Long Term Mean 30day Avearge ET for Lake Alfred (Inches) = -NR-

Lake Okeechobee Net Inflow (LONIN)

		Average Flow over the previous 14 days			Avg-Daily Flow
14JUN20	Today =	14 JUN 2020	8235	MON	0
14JUN20	-1 Day =	13 JUN 2020	8538	SUN	1916
14JUN20	-2 Days =	12 JUN 2020	8832	SAT	2034
14JUN20	-3 Days =	11 JUN 2020	8965	FRI	8039
14JUN20	-4 Days =	10 JUN 2020	8883	THU	7663
14JUN20	-5 Days =	09 JUN 2020	8686	WED	9831
14JUN20	-6 Days =	08 JUN 2020	9215	TUE	15276
14JUN20	-7 Days =	07 JUN 2020	9441	MON	9075
14JUN20	-8 Days =	06 JUN 2020	8996	SUN	21276
14JUN20	-9 Days =	05 JUN 2020	6968	SAT	21679
14JUN20	-10 Days =	04 JUN 2020	5170	FRI	-NR-
14JUN20	-11 Days =	03 JUN 2020	4776	THU	-NR-
14JUN20	-12 Days =	02 JUN 2020	4436	WED	1927
14JUN20	-13 Days =	01 JUN 2020	5727	TUE	104

S65E

		Average Flow over previous 14 days			Avg-Daily Flow
14JUN20	Today=	14 JUN 2020	1347	MON	1107
14JUN20	-1 Day =	13 JUN 2020	1341	SUN	1225
14JUN20	-2 Days =	12 JUN 2020	1326	SAT	1338
14JUN20	-3 Days =	11 JUN 2020	1292	FRI	1486
14JUN20	-4 Days =	10 JUN 2020	1232	THU	1327
14JUN20	-5 Days =	09 JUN 2020	1188	WED	1477
14JUN20	-6 Days =	08 JUN 2020	1144	TUE	1568
14JUN20	-7 Days =	07 JUN 2020	1084	MON	1732
14JUN20	-8 Days =	06 JUN 2020	993	SUN	1481
14JUN20	-9 Days =	05 JUN 2020	913	SAT	1524
14JUN20	-10 Days =	04 JUN 2020	824	FRI	1327
14JUN20	-11 Days =	03 JUN 2020	750	THU	1106
14JUN20	-12 Days =	02 JUN 2020	688	WED	1113
14JUN20	-13 Days =	01 JUN 2020	633	TUE	1043

S65EX1

		Average Flow over previous 14 days			Avg-Daily Flow
14JUN20	Today=	14 JUN 2020	537	MON	617
14JUN20	-1 Day =	13 JUN 2020	493	SUN	630
14JUN20	-2 Days =	12 JUN 2020	456	SAT	503

14JUN20	-3 Days =	11 JUN 2020	435	FRI	624
14JUN20	-4 Days =	10 JUN 2020	419	THU	671
14JUN20	-5 Days =	09 JUN 2020	387	WED	859
14JUN20	-6 Days =	08 JUN 2020	341	TUE	857
14JUN20	-7 Days =	07 JUN 2020	297	MON	685
14JUN20	-8 Days =	06 JUN 2020	256	SUN	709
14JUN20	-9 Days =	05 JUN 2020	209	SAT	573
14JUN20	-10 Days =	04 JUN 2020	171	FRI	342
14JUN20	-11 Days =	03 JUN 2020	153	THU	309
14JUN20	-12 Days =	02 JUN 2020	134	WED	139
14JUN20	-13 Days =	01 JUN 2020	128	TUE	0

Lake Okeechobee Outlets Last 14 Days

DATE	S-77 Discharge (ALL DAY) (AC-FT)	Below S-77 Discharge (ALL-DAY) (AC-FT)	S-78 Discharge (ALL DAY) (AC-FT)	S-79 Discharge (ALL DAY) (AC-FT)
14 JUN 2020	5	-14	834	3410
13 JUN 2020	6	60	859	3834
12 JUN 2020	222	593	1700	-NR-
11 JUN 2020	758	760	1980	-NR-
10 JUN 2020	3	93	2497	5941
09 JUN 2020	3	508	2879	5603
08 JUN 2020	0	529	3650	5592
07 JUN 2020	4	410	4601	9117
06 JUN 2020	1	497	5593	9955
05 JUN 2020	1	94	3877	7911
04 JUN 2020	1	38	1209	3181
03 JUN 2020	2	-84	1070	2885
02 JUN 2020	221	452	1206	1811
01 JUN 2020	230	369	1489	2543

DATE	S-310 Discharge (ALL DAY) (AC-FT)	S-351 Discharge (ALL DAY) (AC-FT)	S-352 Discharge (ALL DAY) (AC-FT)	S-354 Discharge (ALL DAY) (AC-FT)	L8 Canal Pt Discharge (ALL DAY) (AC-FT)
14 JUN 2020	98	0	0	0	-169
13 JUN 2020	32	0	0	0	-172
12 JUN 2020	62	0	0	0	-235
11 JUN 2020	-9	0	0	0	-395
10 JUN 2020	-42	0	0	0	-491
09 JUN 2020	-109	0	0	0	-617
08 JUN 2020	-185	0	0	0	-873
07 JUN 2020	-413	0	0	0	-1131
06 JUN 2020	-484	0	0	0	-905
05 JUN 2020	-334	0	0	0	-96
04 JUN 2020	-129	0	0	0	-366
03 JUN 2020	36	0	0	0	-212
02 JUN 2020	121	0	0	0	-91
01 JUN 2020	73	0	0	0	-4

DATE	S-308 Discharge (ALL DAY) (AC-FT)	Below S-308 Discharge (ALL-DAY) (AC-FT)	S-80 Discharge (ALL-DAY) (AC-FT)
14 JUN 2020	-1540	-292	35
13 JUN 2020	-1612	-223	64
12 JUN 2020	-1492	-465	26
11 JUN 2020	-2031	-893	41
10 JUN 2020	-2821	-1131	42
09 JUN 2020	-3976	-1903	39

08 JUN 2020	-7095	-NR-	21
07 JUN 2020	-11907	-NR-	26
06 JUN 2020	-13074	-NR-	43
05 JUN 2020	-5732	-NR-	-NR-
04 JUN 2020	-7169	-2271	25
03 JUN 2020	-4920	-1945	27
02 JUN 2020	-1965	-281	38
01 JUN 2020	-1639	-451	48

*** NOTE: Discharge (ALL DAY) is computed using Spillway, Sector Gate and Lockages Discharges from 0015 hrs to 2400 hrs.

(I) - Flows preceeded by "I" signify an instantaneous flow computed from the single value reported for the day

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* On 11 May 1999, Lake Okeechobee Elevation was switched from Instantaneous 2400 value to an average-daily lake average.
On 14 Mar 2001, due to the isolation of various gages within the standard 10 stations, the average of the interior 4 station gages was used as the Lake Okeechobee Elevation.
On 05 November 2010, Lake Okeechobee Elevation was switched to a 9 gage mix of interior and edge gages to obtain a more reliable representation of the lake level.
On 09 May 2011, Lake Okeechobee Elevation was switched to a 8 gage mix of interior and edge gages to obtain a more reliable representation of the lake level due to isolation of S135 from low lake levels.
Today Lake Okechobee elevation is determined from the 4 Int & 4 Edge stations
++ For more information see the Jacksonville District Navigation website at http://www.saj.usace.army.mil/
$ For information regarding Lake Okeechobee Service Area water restrictions please refer to www.sfwmd.gov

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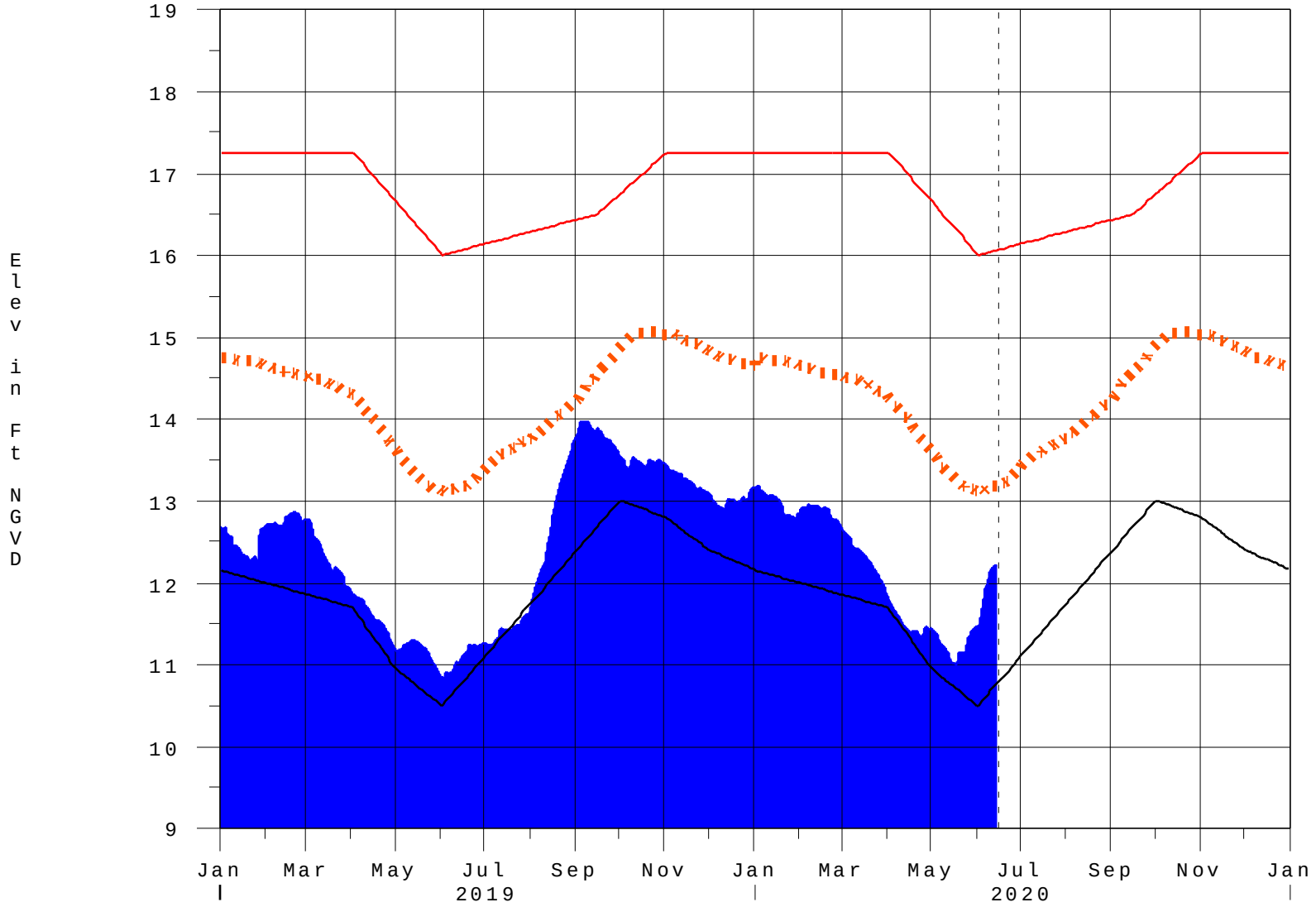
Report Generated 15JUN2020 @ 23:39 ** Preliminary Data - Subject to Revision **

Lake Okeechobee

15JUN20 21:45:26



Classification Tables

Supplemental Tables used in conjunction with the LORS2008 Release

Guidance Flow Charts

- Class Limits for Tributary Hydrologic Conditions

Table K-2 in the Lake Okeechobee Water Control Plan

- 6-15 Day Precipitation Outlook Categories

Table ?? in the Lake Okeechobee Water Control Plan

- Classification of Lake Okeechobee Net Inflow for Seasonal Outlook

Table K-3 in the Lake Okeechobee Water Control Plan

- Classification of Lake Okeechobee Net Inflow for Multi-Seasonal Outlook

Table K-4 in the Lake Okeechobee Water Control Plan

Back to Lake Okeechobee Operations Main Page

Back to U.S. Army Corps of Engineers Lake Okeechobee Operations Homepage

Tributary Hydrologic Classification*	Palmer Index Class Limits	2-wk Mean L.O. Net Inflow Class Limits
Very Wet	3.0 or greater	Greater >= 6000 cfs
Wet	1.5 to 2.99	2500 - 5999 cfs
Near Normal	-1.49 to 1.49	500 - 2499 cfs
Dry	-2.99 to -1.5	-5000 – 500 cfs
Very Dry	-3.0 or less	Less than -5000 cfs

* use the wettest of the two indicators

Classification of Lake Okeechobee Net Inflow Seasonal Outlook*

Lake Net Inflow Prediction [million acre-feet]	Equivalent Depth** [feet]	Lake Okeechobee Net Inflow Seasonal Outlook
> 0.93	> 2.0	Very Wet
0.71 to 0.93	1.51 to 2.0	Wet
0.35 to 0.70	0.75 to 1.5	Normal
< 0.35	< 0.75	Dry

****Volume-depth conversion based on average lake surface area of 467,000 acres**

Classification of Lake Okeechobee Net Inflow Multi-Seasonal Outlook*

Lake Net Inflow Prediction [million acre-feet]	**Equivalent Depth** [feet]**	**Lake Okeechobee Net Inflow Multi-Seasonal Outlook**
> 2.0	> 4.3	Very Wet
1.18 to 2.0	2.51 to 4.3	Wet
0.5 to 1.17	1.1 to 2.5	Normal
< 0.5	< 1.1	Dry

****Volume-depth conversion based on average lake surface area of 467,000 acres**

6-15 Day Precipitation Outlook Categories*

6-15 Day Precipitation Outlook Categories	WSE Decision Tree Categories
Above Normal	Wet to Very Wet
Normal	Normal
Below Normal	Dry

*** Corresponds to Table 7-6 in the Lake Okeechobee Water Control Plan**

Under Construction