# Application of the Lake Okeechobee Regulation Schedule (LORS2008) on 06/06/2022 (ENSO Condition: La Niña)

#### **Lake Okeechobee Net Inflow Outlook:**

The Lake Okeechobee Net Inflow Outlook has been computed using 4 methods: Croley's method<sup>1</sup>, the SFWMD empirical method<sup>2</sup>, a sub-sampling of La Nina years<sup>3</sup> and a sub-sampling of warm years of the Atlantic Multi-decadal Oscillation (AMO) in combination with La Nina ENSO years<sup>4</sup>. 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 <sup>1*</sup>	SFWMD Empirical Method <sup>2</sup>		Sub-sampling of La Nina ENSO Years <sup>3</sup>		Sub-sampling of AMO Warm + La Nina ENSO Years <sup>4</sup>	
	Value (ft)	Condition	Value (ft)	Condition	Value (ft)	Condition	Value (ft)	Condition
Current (Jun-Nov)	N/A	N/A	2.81	Very Wet	2.67	Very Wet	2.59	Very Wet
Multi Seasonal (Jun-Apr)	N/A	N/A	3.24	Wet	2.85	Wet	2.23	Normal

<sup>\*</sup>Croley's Method Not Produced for This Report

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.

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

## Tributary Hydrologic Conditions Graph:

**1780 cfs** 14-day running average for Lake Okeechobee Net Inflow through 06/06/2022. According to the classification in <u>Tributary Hydrologic Conditions</u> table, this condition is Near Normal.

**-2.47** for Palmer Drought Index on 06/06/2022. According to the classification in <u>Tributary Hydrologic Conditions</u> table, this condition is Dry.

The wetter of the two conditions above is **Near Normal**.

## **LORS2008 Classification Tables:**

#### Lake Okeechobee Stage on 06/06/2022:

Lake Okeechobee Stage: 12.75 feet

	ee Management /Band	Bottom Elevation (feet, NGVD)	Current Lake Stage
High Lake Manage	ement Band	16.02	
	High sub-band	15.52	
Operational Intermediate Band sub-band		15.04	
	Low sub-band	13.05	
Base Flow sub-ba	nd	12.60	← 12.75 ft
Beneficial Use sub	o-band	11.45	
Water Shortage M	lanagement Band	10.63	

#### Part C of LORS2008: Discharge to WCAs

No releases to WCAs.

#### Part D of LORS2008: Discharge to Tide

Up to 450 cfs at S-79 and up to 200 cfs at S-80.

# Lake Okeechobee Releases to the Caloosahatchee Estuary for 2008 LORS Baseflow & for Environmental Water Supply

Guidance for Lake Okeechobee Releases to the Caloosahatchee Estuary indicates no S77 release to the Caloosahatchee Estuary unless the Governing Board recommends otherwise.

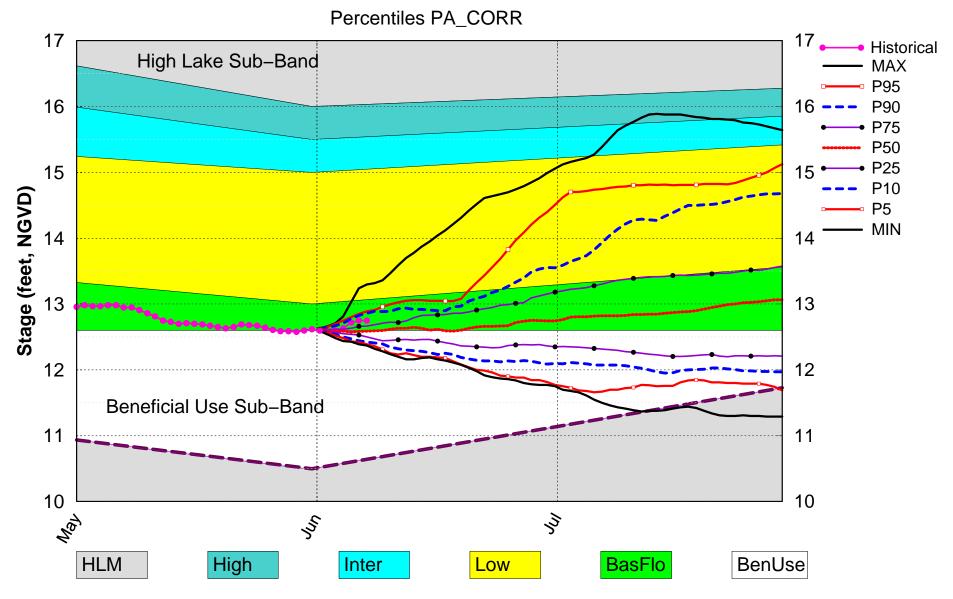
# LORS2008 Implementation on 06/06/2022 (ENSO Condition- La Nina Watch): Status for week ending 06/06/2022:

**Water Supply Risk Evaluation** 

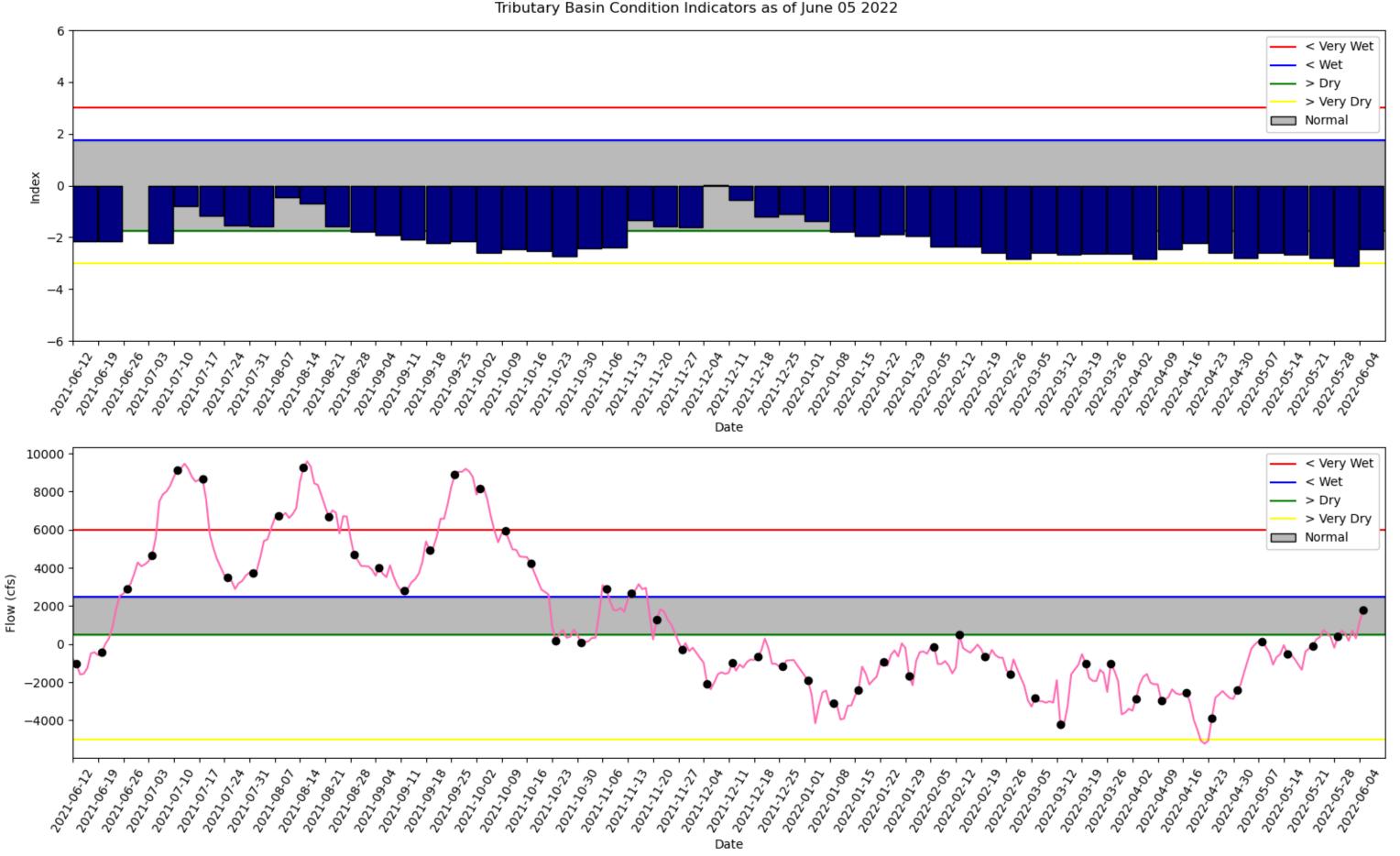
Area	Indicator	Value	Color Coded Scoring Scheme
	Projected LOK Stage for the next two months	Base Flow	M
	Palmer Drought Index for LOK Tributary Conditions	-2.47 (Extremely Dry)	Н
	CPC Precipitation Outlook	1 month: Above Normal	L
LOK	CPC Precipitation Outlook	3 months: Normal	L
	LOK Seasonal Net Inflow Outlook	2.67 ft	
<u> </u>	ENSO Forecast	Normal to extremely wet	_
	LOK Multi-Seasonal Net Inflow Outlook	2.85 ft	M
	ENSO Forecast	Normal	IVI
	WCA 1: Site 1-8C	Above Line 1 (16.51 ft)	L
WCAs	WCA 2A: Site S-11B	Above Line 1 (12.25 ft)	L
	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (9.30 ft)	L
	Service Area 1	Year-Round Irrigation Rule in effect	L
LEC	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 June 2022 Position Analysis

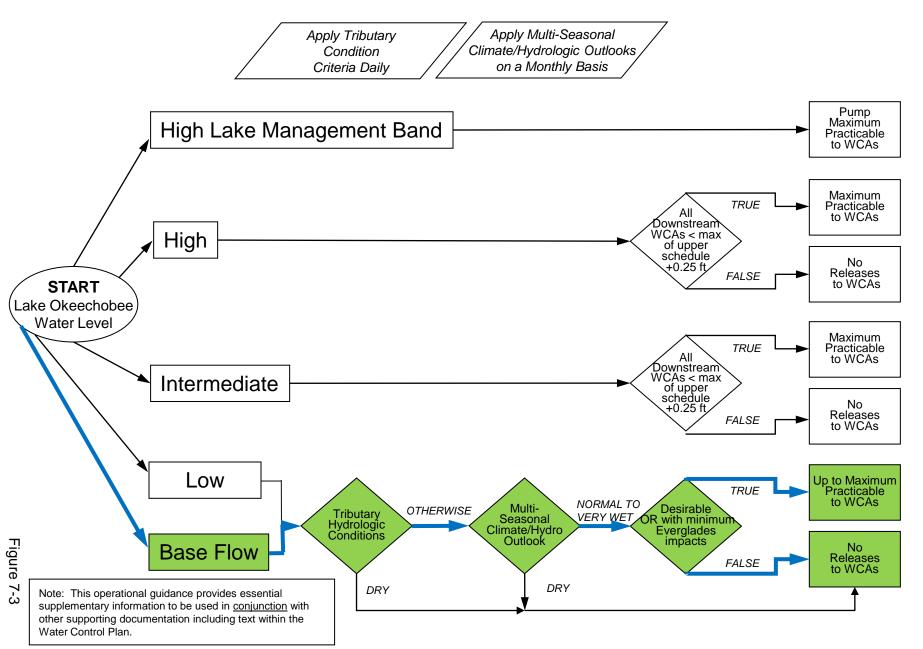


(See assumptions on the Position Analysis Results website)



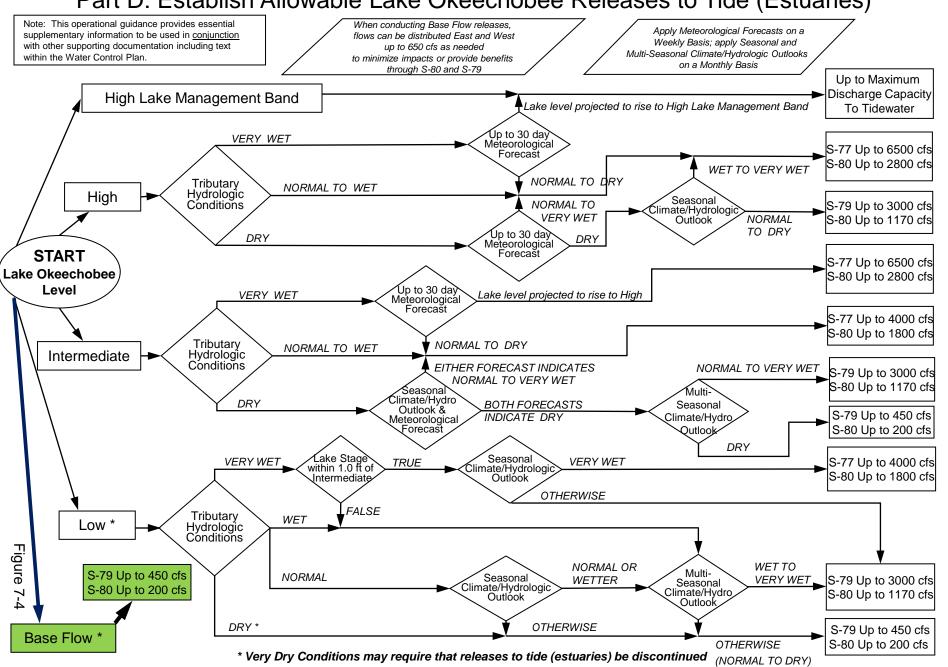
## **2008 LORS**

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

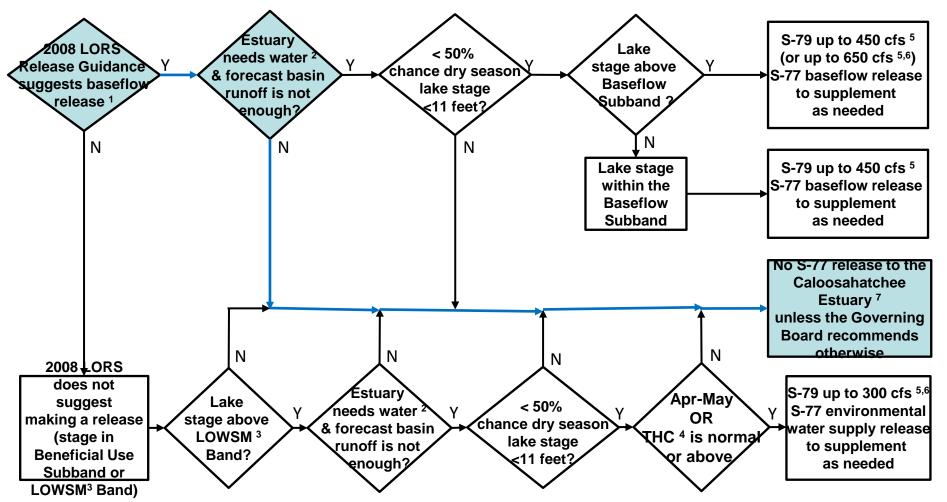


### **2008 LORS**

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



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



<sup>&</sup>lt;sup>1</sup>The 2008 LORS Release Guidance (Part D) can suggest baseflow releases in the Intermediate, Low, or Baseflow Subbands.

<sup>&</sup>lt;sup>2</sup>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.

<sup>&</sup>lt;sup>3</sup>LOWSM = Lake Okeechobee Water Shortage Management.

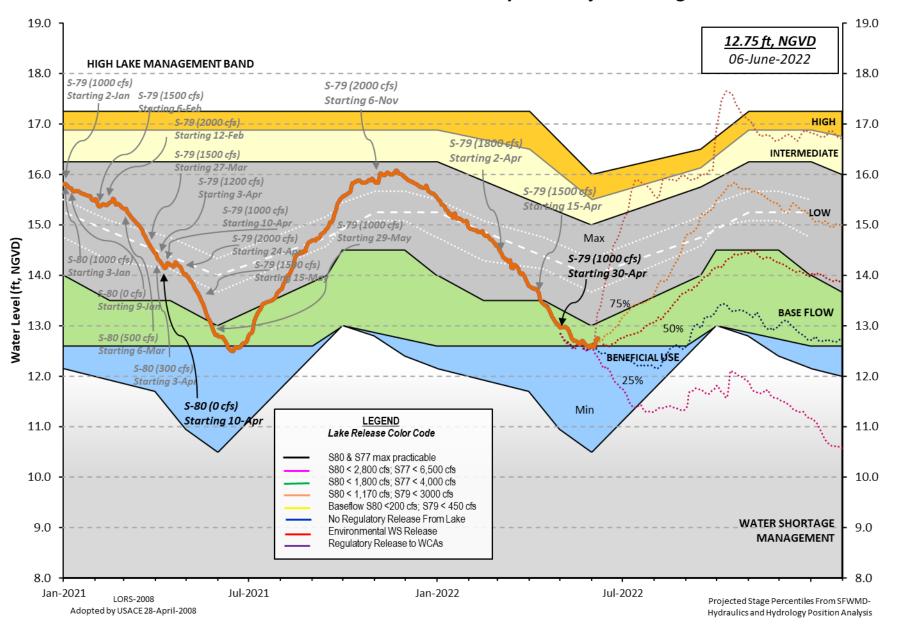
<sup>&</sup>lt;sup>4</sup>Tributary Hydrologic Condition (THC) is based on classification of Lake Okeechobee Net Inflow and Palmer Index.

<sup>&</sup>lt;sup>5</sup>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.

<sup>&</sup>lt;sup>6</sup>After reviewing conditions in Water Conservation Areas (WCAs), Stormwater Treatment Areas (STAs), ENP, St. Lucie Estuary and Lake Okeechobee.

<sup>&</sup>lt;sup>7</sup>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**



#### 

Data Ending 2400 hours 06 JUN 2022

Okeechobee Lake R	egulation			ear 2YRS Ago VD) (ft-NGVD)	
*Okeechobee Lak Bottom of High Currently in Op	Lake Mngm	on 12.75 t= 16.02 Top o	12. f Water Sl	75 11.92 (0	
Simulated Avera Difference from			11.97 0.78		
06JUN (1965-200 Difference from			age 13		
Today Lake Okee stations	chobee el	evation is dete	rmined fro	om the 4 Int &	4 Edge
++Navigation De	pth (Base	d on 2007 Chann	el Condit	ion Survey) Ro	ute 1 ÷
6.69'	nth (Paga	d on 2000 Chann	ol Condit	ion Currous Do	u+o 2 ÷
++Navigation De 4.89'	pun (Base	d on 2006 Chain	er condit.	ion Survey) Ro	ute Z ÷
Bridge Clearanc	e = 49.73	•			
_					
4 Interior and 4	Edge Okee	chobee Lake Ave	rage (Avg	-Daily values)	:
L001 L005 L	006 T.Z.4	0 S4 S352	S308	S133	
12.76 12.76 1					
*Combination Oke	echobee	Avg-Daily Lake	Average =	12.75	
		J 1	2	(*See Note)	
_					
Okeechobee Inflow			•		•
S65E S154	330	S65EX1 S191	0	Fisheating C S135 Pumps	r 0 0
S134 S84	71	S133 Pumps	0	S133 Pumps S2 Pumps	
S84X	27	S127 Pumps	0	S3 Pumps	0
S71	0	S129 Pumps	0	S4 Pumps	0
S72	66	S131 Pumps	0	C5	0
Total Inflows:	494				
Okeechobee Outflo	ws (cfs):				
S135 Culverts	0	S354	0	S77	2
S127 Culverts	0	S351	0	S308	-189
S129 Culverts	0	S352	0		
S131 Culverts	0	L8 Canal Pt	-NR-		
Total Outflows:	-187				

Elevation Elevation Disch #1 #2 #3 #4 #5 #6 #7  #8  (ft-msl) (ft-msl) (cfs) (ft) (ft) (ft) (ft) (ft) (ft) (ft)  (I) see note at bottom  North East Shore  S133 Pumps: 13.11 12.95 0 0 0 0 0 0 0 0 (cfs)  S193:  S191: 18.77 12.97 0 0.0 0.0 0.0  S135 Pumps: 12.74 12.74 0 0 0 0 0 0 (cfs)  S135 Culverts: 0 0.0 0.0  North West Shore  S65E: 20.93 12.61 330 -0.0 0.2 0.0 0.5 0.0 0.0  S65EX1: 20.93 12.61 0  S127 Pumps: 12.47 12.76 0 0 0 0 0 0 0 (cfs)
(ft-msl) (ft-msl) (cfs) (ft) (ft) (ft) (ft) (ft) (ft) (ft) (ft
North East Shore  S133 Pumps: 13.11
North East Shore  S133 Pumps: 13.11
S193: S191: 18.77 12.97 0 0.0 0.0 0.0 S135 Pumps: 12.74 12.74 0 0 0 0 0 0 (cfs) S135 Culverts: 0 0.0 0.0  North West Shore S65E: 20.93 12.61 330 -0.0 0.2 0.0 0.5 0.0 0.0 S65EX1: 20.93 12.61 0
S135 Pumps: 12.74 12.74 0 0 0 0 0 0 (cfs) S135 Culverts: 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
S135 Culverts: 0 0.0 0.0  North West Shore  S65E: 20.93 12.61 330 -0.0 0.2 0.0 0.5 0.0 0.0  S65EX1: 20.93 12.61 0
North West Shore S65E: 20.93 12.61 330 -0.0 0.2 0.0 0.5 0.0 0.0 S65EX1: 20.93 12.61 0
S65E: 20.93 12.61 330 -0.0 0.2 0.0 0.5 0.0 0.0 S65EX1: 20.93 12.61 0
S65EX1: 20.93 12.61 0
S127 Pumps: 12.47 12.76 0 0 0 0 0 (cfs)
S127 Culvert: 0 0.0
S129 Pumps: 12.87 12.79 0 0 0 0 (cfs)
S129 Culvert: 0 0.0
S131 Pumps: 13.02 12.72 0 0 0 (cfs)
S131 Culvert: 0
Fisheating Creek
nr Palmdale 27.80 0
nr Lakeport
C5: 0 -NRNRNR-
South Shore
S4 Pumps: 12.94 -NR- 0 0 0 0 (cfs)
S169: 12.66 12.77 -NRNRNRNR-
S310: 12.63 -245

```
S3 Pumps: 10.25 12.57 0 0 0 0 0 0 (cfs)
S354: 12.57 10.25 0 0.0 0.0
S2 Pumps: 10.39 13.46 0 0 0 0 0 0 (cfs)
S351: 13.46 10.39 0 0.0 0.0 0.0
S352: 12.80 9.79 0 0.0 0.0
C10A: -NR- 12.88 8.0 8.0 8.0 0.0 0.0
L8 Canal PT 12.94 -NR-
                    S351 and S352 Temporary Pumps/S354 Spillway
              10.39 13.46 0 -NR--NR--NR--NR--NR-
9.79 12.80 0 -NR--NR--NR-
10.25 12.57 0 -NR--NR--NR-
  S351:
  S352:
  S354:
Caloosahatchee River (S77, S78, S79)

      S47B:
      13.21
      11.18
      0.0

      S47D:
      11.15
      11.18
      4
      5.0

  S77:
    Spillway and Sector Preferred Flow:
               12.91 11.06 0 0.0 0.0 0.0 0.0
    Flow Due to Lockages+:
                                       2
  S78:
    Spillway and Sector Flow:
              11.06 2.92 1042 1.5 0.0 0.0 1.0
    Flow Due to Lockages+:
                                    16
  S79:
    Spillway and Sector Flow:
               3.07 1.73 2607 0.0 0.0 2.0 2.0 2.0 2.0 0.0
0.0
    Flow Due to Lockages+:
    Percent of flow from S77 0% Chloride (ppm) 0
St. Lucie Canal (S308, S80)
  S308:
    Spillway and Sector Preferred Flow:
               Flow Due to Lockages+:
  S153: 18.90 13.68 0 0.0 0.0
  S80:
    Spillway and Sector Flow:
    13.92 0.83 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 Flow Due to Lockages+: 20
    Percent of flow from S308 NA %
  Steele Point Top Salinity (mg/ml) ****
  Steele Point Bottom Salinity (mg/ml) ****
  Speedy Point Top Salinity (mg/ml) ****
  Speedy Point Bottom Salinity (mg/ml) ****
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- + 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

_				Wi	.nd
- Daily Precipitation Totals Speed	1-Day	3-Day	7-Day	Directio	n
bpeed	(inches)	(inches)	(inches)	(Degg)	
(mph)	(======,	(======,	(======,	(= - 5~ )	
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:	0.00	0.13	2.82	276	1
S78:	0.00	0.00	0.00	304	0
S79:	0.00	0.05	5.08	331	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:	0.12	0.16	1.67	153	6
S80:	0.94	1.31	4.47	181	3
Okeechobee Average	0.06	0.02	0.35		
(Sites S78, S79 and					
Oke Nexrad Basin Avg	-NR-	0.00	0.00		

_ Okeechobee 06JUN22	Lake	Elev	ations	06	JUN	2022	12.75	Difference	from
		_		0 -		0000	10 75		0 00
06JUN22	-T T	Day	=	05	JUN	2022	12.75		0.00
06JUN22	-2 I	Days	=	04	JUN	2022	12.72		-0.03
06JUN22	-3 I	Days	=	03	JUN	2022	12.63		-0.12
06JUN22	-4 I	Days	=	02	JUN	2022	12.60		-0.15
06JUN22	-5 I	Days	=	01	JUN	2022	12.57		-0.18
06JUN22	-6 I	Days	=	31	MAY	2022	12.60		-0.15
06JUN22	-7 I	Days	=	30	MAY	2022	12.62		-0.13
06JUN22	-30 I	Days	=	07	MAY	2022	12.95		0.20
06JUN22	-1 )	Year	=	06	JUN	2021	12.75		0.00
06JUN22	-2 3	Year	=	06	JUN	2020	11.92		-0.83

 $\overline{}$  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

06JUN22 -1 Day = 05 JUN 2022 1722 MON   5889 06JUN22 -2 Days = 04 JUN 2022 1342 SUN   17343 06JUN22 -3 Days = 03 JUN 2022 584 SAT   5748 06JUN22 -4 Days = 02 JUN 2022 547 FRI   6150 06JUN22 -5 Days = 01 JUN 2022 -188 THU   -5705 06JUN22 -6 Days = 31 MAY 2022 239 WED   -3513 06JUN22 -7 Days = 30 MAY 2022 382 TUE   4146 06JUN22 -8 Days = 29 MAY 2022 382 TUE   4146 06JUN22 -9 Days = 28 MAY 2022 -17 SUN   -NR- 06JUN22 -10 Days = 27 MAY 2022 363 SAT   1727 06JUN22 -11 Days = 26 MAY 2022 148 FRI   20 06JUN22 -12 Days = 25 MAY 2022 148 FRI   20 06JUN22 -13 Days = 24 MAY 2022 130 WED   -4696	06JUN22 Today =	06 JUN 2022	1815 TUE	0
06JUN22 -2 Days = 04 JUN 2022 1342 SUN   17343	06JUN22 -1 Day =	05 JUN 2022	1722 MON	5899
06JUN22 -3 Days = 03 JUN 2022 584 SAT 5748 06JUN22 -4 Days = 02 JUN 2022 547 FRI 6150 06JUN22 -5 Days = 01 JUN 2022 -188 THU -5705 06JUN22 -6 Days = 31 MAY 2022 239 WED -3513 06JUN22 -7 Days = 30 MAY 2022 382 TUE   4146 06JUN22 -8 Days = 29 MAY 2022 382 TUE   4146 06JUN22 -9 Days = 28 MAY 2022 382 TUE   4146 06JUN22 -9 Days = 28 MAY 2022 383 MON -NR- 06JUN22 -10 Days = 27 MAY 2022 363 SAT   1727 06JUN22 -11 Days = 26 MAY 2022 148 FRI   20 06JUN22 -12 Days = 25 MAY 2022 246 THU   -5339 06JUN22 -13 Days = 24 MAY 2022 130 WED   -4696	<u>-</u>			
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06JUN22 -12 Days = 25 MAY 2022 246 THU   -5339				•
S65E  Average Flow over previous 14 days   Avg-Daily Flow 06JUN22				•
Average Flow over previous 14 days   Avg-Daily Flow 06JUN22	06JUN22 -13 Days =	24 MAY 2022	130 WED	-4696
Average Flow over previous 14 days   Avg-Daily Flow 06JUN22				
Average Flow over previous 14 days   Avg-Daily Flow 06JUN22	_			
Average Flow over previous 14 days   Avg-Daily Flow 06JUN22	_	C 6 5 F		
06JUN22 Today= 06 JUN 2022 645 TUE   388 06JUN22 -1 Day = 05 JUN 2022 690 MON   400 06JUN22 -2 Days = 04 JUN 2022 712 SUN   448 06JUN22 -3 Days = 03 JUN 2022 766 SAT   378 06JUN22 -4 Days = 02 JUN 2022 828 FRI   358 06JUN22 -5 Days = 01 JUN 2022 897 THU   480 06JUN22 -6 Days = 31 MAY 2022 963 WED   648 06JUN22 -7 Days = 30 MAY 2022 1021 TUE   715 06JUN22 -8 Days = 29 MAY 2022 1076 MON   768 06JUN22 -9 Days = 28 MAY 2022 1132 SUN   749 06JUN22 -10 Days = 27 MAY 2022 1184 SAT   869 06JUN22 -11 Days = 26 MAY 2022 1232 FRI   914 06JUN22 -12 Days = 25 MAY 2022 1281 THU   958 06JUN22 -13 Days = 24 MAY 2022 1331 WED   956			nrevious 1/ dave	l Ava-Dailv Flow
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DATE  06 JUN 2022  05 JUN 2022  04 JUN 2022  03 JUN 2022  01 JUN 2022  31 MAY 2022  30 MAY 2022  29 MAY 2022  28 MAY 2022  27 MAY 2022  26 MAY 2022  25 MAY 2022  24 MAY 2022	-536 -318 -300 -275 -182 -51 -39 57 69 140 180 427	S-351 Discharge (ALL DAY) (AC-FT)  0 0 0 0 0 0 0 0 654 1122 353 1495 1922 31	S-352 Discharge (ALL DAY) (AC-FT)  0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S-354 Discharge (ALL DAY) (AC-FT)  0 0 0 0 0 0 0 0 522 21 0 250 27	L8 Canal Pt Discharge (ALL DAY) (AC-FT) -NRNRNRNRNRNRNRNR
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\*\*\* NOTE: Discharge (ALL DAY) is computed using Spillway, Sector Gate and

Lockages Discharges from 0015 hrs to 2400 hrs.

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(I) - Flows preceded 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  $\min$  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.

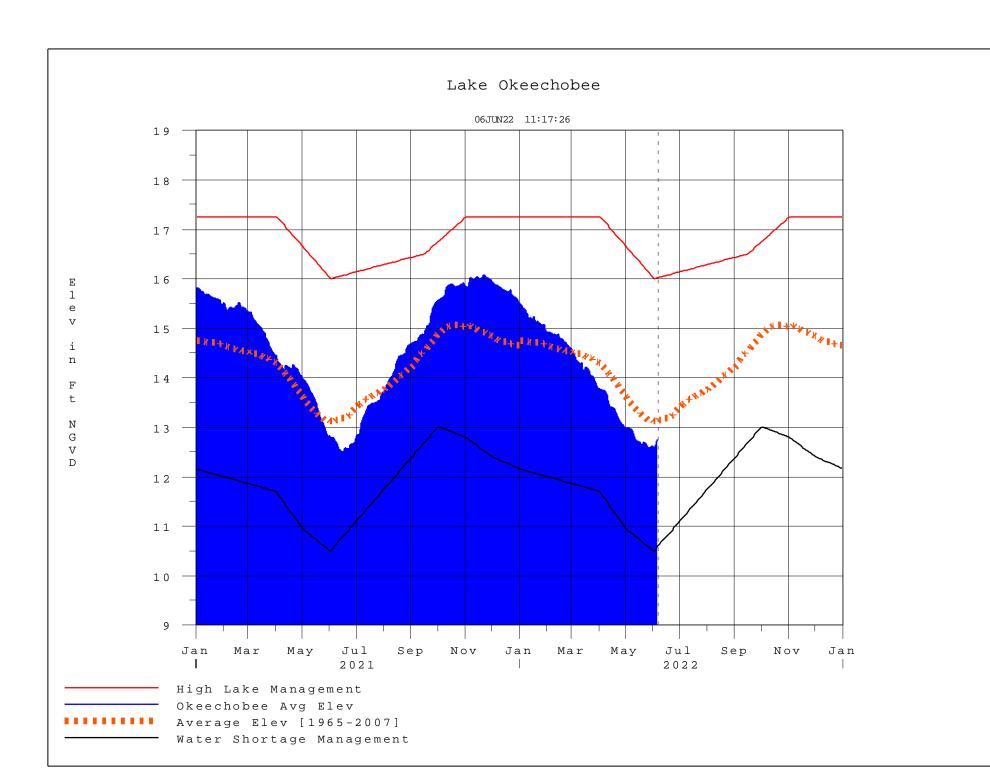
Today Lake Okechobee elevation is determined from the 4 Int & 4 Edge stations

++ 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

Report Generated 07JUN2022 @ 23:39 \*\* Preliminary Data - Subject to Revision \*\*



## **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	Palmer Index	2-wk Mean L.O. Net
Classification*	Class Limits	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

<sup>\*</sup> use the wettest of the two indicators

## Classification of Lake Okeechobee Net Inflow Seasonal Outlook\*

Lake Net Inflow Prediction	Equivalent Depth**	Lake Okeechobee
[million acre-feet]	[feet]	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

<sup>\*\*</sup>Volume-depth conversion based on average lake surface area of 467,000 acres

## <u>Classification of Lake Okeechobee Net Inflow Multi-Seasonal Outlook</u>\*

Lake Net Inflow Prediction	Equivalent Depth**	Lake Okeechobee
[million acre-feet]	[feet]	Net Inflow
[	[root]	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

<sup>\*\*</sup>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

<sup>\*</sup> Corresponds to Table 7-6 in the Lake Okeechobee Water Control Plan