# Application of the Lake Okeechobee Regulation Schedule (LORS2008) on 08/14/2023 (ENSO Condition: El Niño)

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

The Lake Okeechobee Net Inflow Outlook has been computed using methods described in the LORS2008 Water Control Plan: Croley's method, the SFWMD empirical method, a subsampling of El Niño years and a sub-sampling of warm years of the Atlantic Multi-decadal Oscillation (AMO) in combination with El Niño ENSO years. 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*		Croley's Method*  SFWMD  Empirical Method		Sub-sampling of El Niño ENSO Years**		Sub-sampling of AMO Warm + EI Niño ENSO Years***	
	Value (ft)	Condition	Value (ft)	Condition	Value (ft)	Condition	Value (ft)	Condition
Current (Aug-Jan)	N/A	N/A	2.31	Very Wet	2.57	Very Wet	3.69	Very Wet
Multi Seasonal (Aug-Apr)	N/A	N/A	2.55	Wet	3.41	Wet	4.45	Very Wet

<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.

<sup>\*\*</sup>Sub-sampling is a weighted average of ENSO conditions based on the IRI ENSO forecast published.

<sup>\*\*\*</sup>Sub-sampling based on combination of ENSO and AMO conditions. For this predominant ENSO categorization is used instead of weights.

## **Tributary Hydrologic Conditions:**

**4064 cfs** 14-day running average for Lake Okeechobee Net Inflow through 08/13/2023. According to the classification in <u>Tributary Hydrologic Conditions</u> table, this condition is Wet.

**-2.16** for Palmer Drought Index on 08/12/2023.

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

The wetter of the two conditions above is Wet.

### **LORS2008 Classification Tables:**

#### Lake Okeechobee Stage on 08/14/2023:

Lake Okeechobee Stage: 15.35 feet

	ee Management /Band	Bottom Elevation (feet, NGVD)	Current Lake Stage
High Lake Manage	ement Band	16.34	
	High sub-band	15.93	
Operational Band	Intermediate sub-band	15.52	
	Low sub-band	13.69	← 15.35 ft
Base Flow sub-ba	nd	12.60	
Beneficial Use sub	o-band	12.01	
Water Shortage M	lanagement Band		

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

Up to Maximum Practicable to the WCAs if desirable or with minimum Everglades impact; otherwise no releases to WCAs.

## Part D of LORS2008: Discharge to Tide

Up to 3000 cfs at S-79 and up to 1170 cfs at S-80.

#### LORS2008 Implementation on 08/14/2023 (ENSO Condition- El Niño):

Status for week ending 08/14/2023\*:

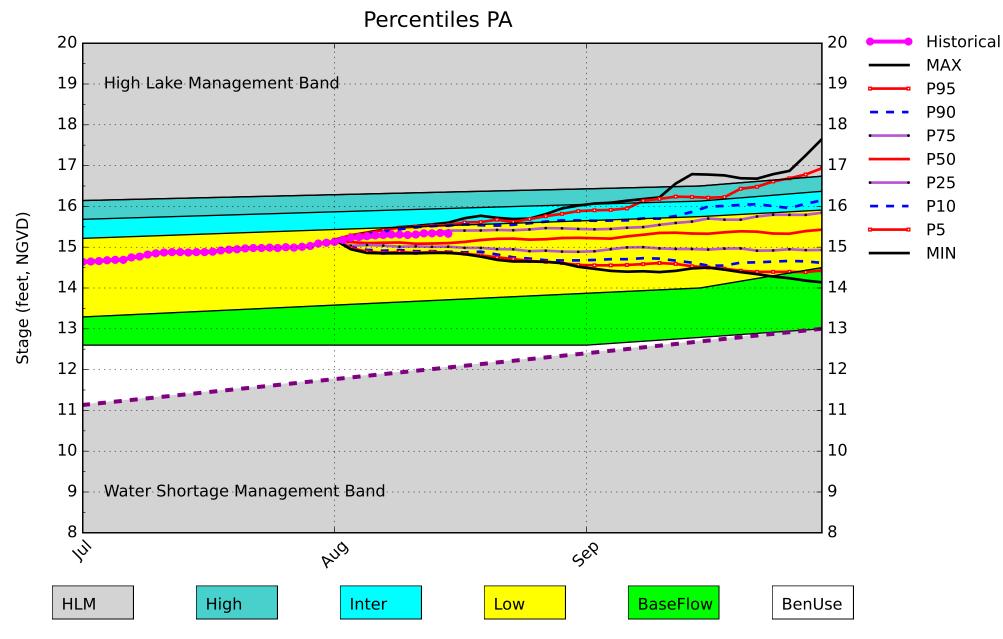
**Water Supply Risk Evaluation** 

Area	Indicator	Value	Color Coded Scoring Scheme
	Projected LOK Stage for the next two months	Low Sub-band	L
	Palmer Drought Index for LOK Tributary Conditions	-2.16 (Extremely Dry)	Н
	CPC Precipitation Outlook	1 month: Equal Chances	L
LOK	CFC Frecipitation Outlook	3 months: Equal Chances	L
	LOK Seasonal Net Inflow Outlook	2.57 ft	
	ENSO Forecast	Normal to Extremely Wet	_
	LOK Multi-Seasonal Net Inflow Outlook	3.41 ft	
	ENSO Forecast	Wet	L
	WCA 1: Site 1-8C	Above Line 1 (16.80 ft)	L
WCAs	WCA 2A: Site 2-17	Above Line 1 (12.90 ft)	L
	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (10.78 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

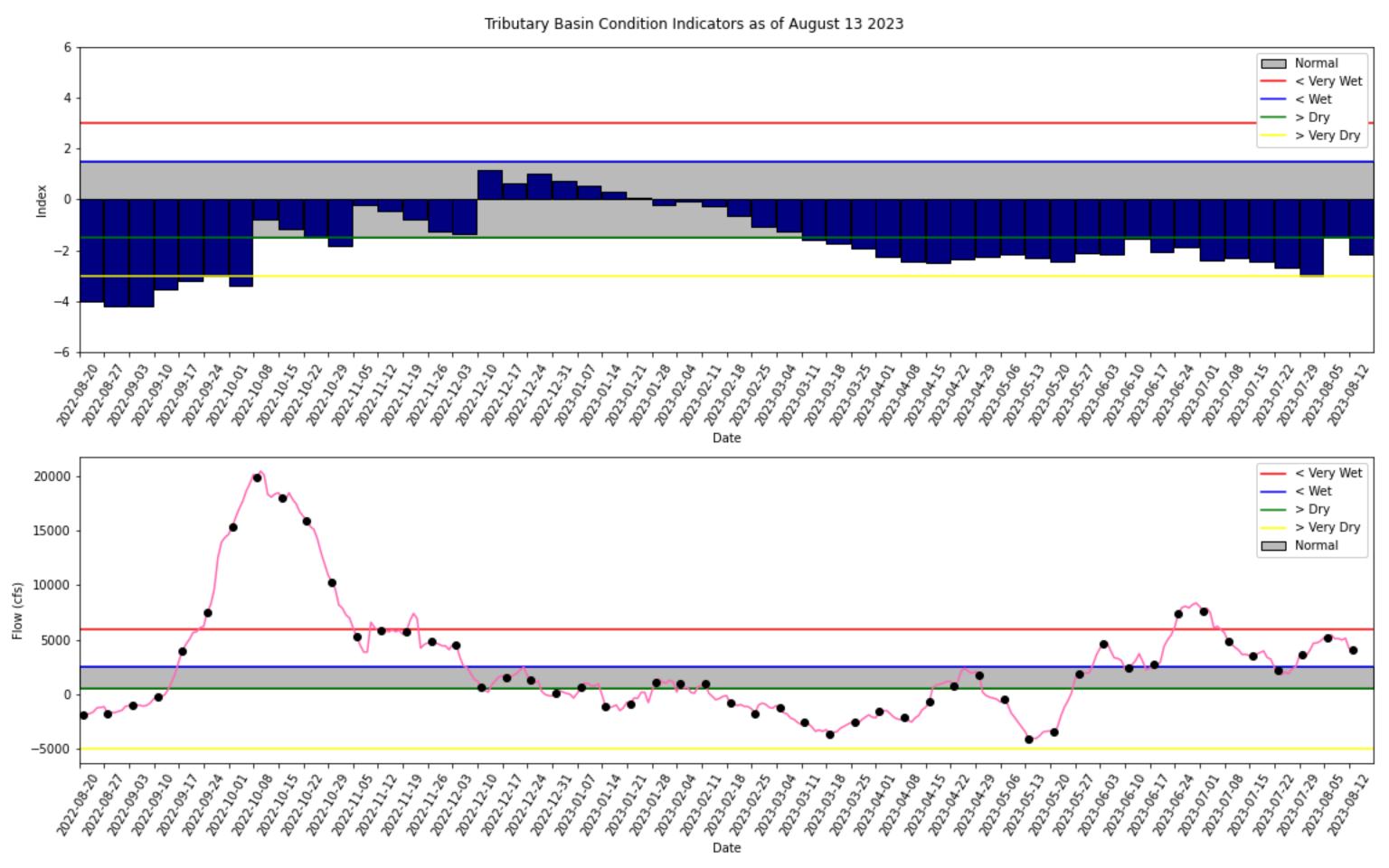
Note: The water supply risk classification based on the Palmer index, as well as the LOK seasonal and multi-seasonal net inflow outlooks use slightly different classification intervals than those used by the 2008-LORS.

<sup>\*</sup>- S80 flow data for August 12 & 13 is not available from USACE Daily Reports and was assumed to be 0.

# Lake Okeechobee SFWMM August 2023 Position Analysis

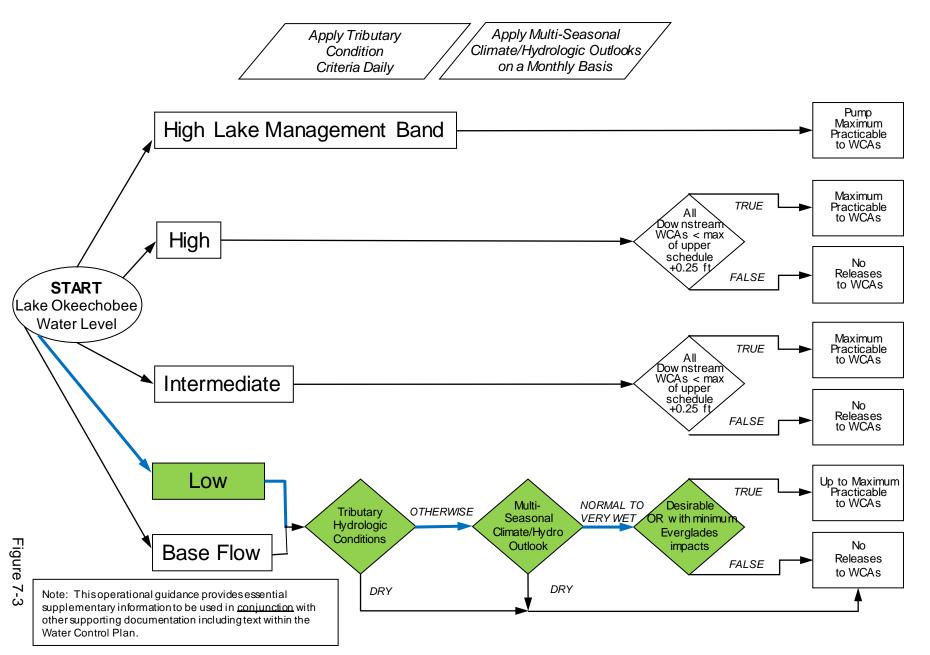


(See assumptions on the Position Analysis Results website)



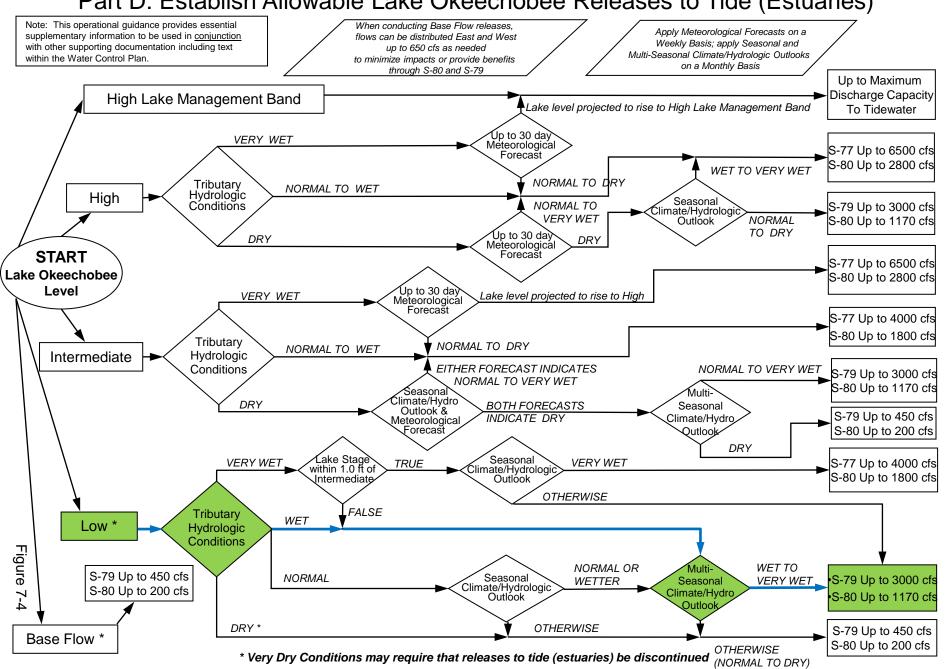
## **2008 LORS**

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

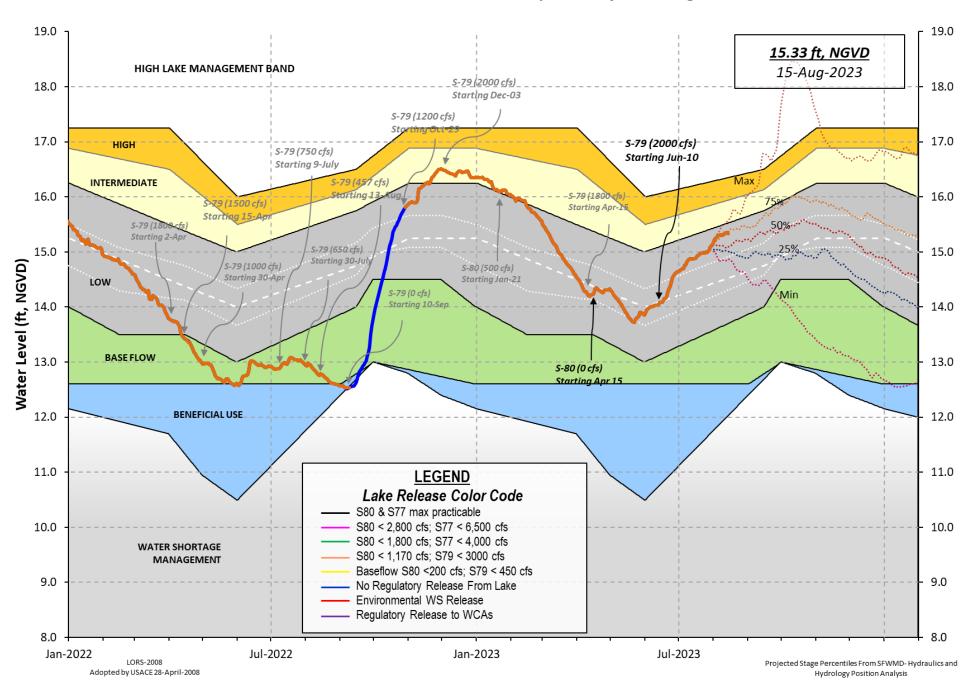


#### **2008 LORS**

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



#### **Lake Okeechobee Water Level History and Projected Stages**



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

Data Ending 2400 hours 13 AUG 2023

Okeechobee Lake Regulation Elevation Last Year 2YRS Ago (ft-NGVD) (ft-NGVD) (ft-NGVD)

\*Okeechobee Lake Elevation 15.35 12.76 14.17 (Official Elv)

Bottom of High Lake Mngmt= 16.34 Top of Water Short Mngmt= 12.01

Currently in Operational Management Band

Simulated Average LORS2008 [1965-2000] 12.91 Difference from Average LORS2008 2.44

13AUG (1965-2007) Period of Record Average 13.95 Difference from POR Average 1.40

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

++Navigation Depth (Based on 2007 Channel Condition Survey) Route 1 ♦ 9.29' ++Navigation Depth (Based on 2008 Channel Condition Survey) Route 2 � 7.49' Bridge Clearance = 49.54'

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

L001 L005 LZ40 L006 S4 S352 S308 S133 15.51 15.36 15.25 15.24 15.22 15.38 15.23 15.46

\*Combination Okeechobee Avg-Daily Lake Average = 15.35 (\*See Note)

S65EX1

Fisheating Cr

582

Okeechobee Inflows (cfs): S65E 1007

S154	30	S191	0	S135 Pumps	0
S84	0	S133 Pumps	0	S2 Pumps	0
S84X	0	S127 Pumps	64	S3 Pumps	0
S71	180	S129 Pumps	0	S4 Pumps	0
S72	448	S131 Pumps	28	C5	0
T 1 7 C1	2240				

Total Inflows: 2340

Okeechobee Outflows (cfs):

S135 Culverts	0	S354	0	S77	386
S127 Culverts	0	S351	0	S308	1
S129 Culverts	0	S352	0		
S131 Culverts	0	L8 Canal Pt	-1		

Total Outflows: 386

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

\*\*\*\*S308 structure flow is being used to compute Total Outflow.

Okeechobee Pan Evaporation (inches):

0.32 S308 0.33

Average Pan Evap x 0.75 Pan Coefficient = 0.24" = 0.02'

Lake Average Precipitation using NEXRAD: = -NR-" =

= -NR-" = -NR-' Evaporation - Precipitation:

Evaporation - Precipitation using Lake Area of 730 square miles

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is equal to -NR-Lake Okeechobee (Change in Storage) Flow is 2168 cfs or 4300 AC-FT

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----- Gate Positions -----
             Headwater Tailwater
             Elevation Elevation Disch #1 #2 #3 #4 #5 #6 #7 #8
                                  (cfs) (ft) (ft) (ft) (ft) (ft) (ft)
             (ft-msl) (ft-msl)
                               (I) see note at bottom
North East Shore
 S133 Pumps: 13.40
                                     0
                         15.43
                                            0
                                                 a
                                                                  (cfs)
 S193:
 S191:
              19.00
                         15.43
                                     0
                                          0.0
                                               0.0
                                                    0.0
 S135 Pumps: 13.42
                         15.30
                                                 0
                                     0
                                            0
                                                      0
                                                           0
                                                                   (cfs)
 S135 Culverts:
                                     0
                                          0.0
                                              0.0
North West Shore
 S65E:
                         15.62
                                  1007
                                          0.3 0.3
                                                    0.4 0.0 0.5 0.5
              20.84
 S65EX1:
               20.84
                         15.62
                                     0
 S127 Pumps: 13.37
                         15.40
                                    64
                                            0
                                                 0
                                                      0
                                                          43
                                                               25 (cfs)
 S127 Culvert:
                                     0
                                          0.0
 S129 Pumps: 12.90
                         15.39
                                     0
                                            0
                                                                   (cfs)
                                                 0
                                                      0
 S129 Culvert:
                                          0.0
 S131 Pumps: 12.82
                          -NR-
                                    28
                                         -NR-
                                                                   (cfs)
                                                 0
 S131 Culvert:
                                     0
 Fisheating Creek
   nr Palmdale
                         32.40
                                   582
   nr Lakeport
 S282
               15.38
                         15.43
                                            0.0 0.0 0.1
South Shore
                          -NR-
 S4 Pumps:
               10.97
                                     0
                                            0
                                                 0
                                                                   (cfs)
               15.20
                          -NR-
                                  -NR-
                                         -NR- -NR- -NR-
 S169:
 S310:
               15.17
                                    18
 S3 Pumps:
               10.94
                         15.15
                                            0
                                                 0
                                                                   (cfs)
                                     0
                                                      0
 S354:
               15.15
                         10.94
                                     0
                                          0.0 0.0
               10.54
                         15.19
 S2 Pumps:
                                     0
                                            0
                                                 0
                                                      0
                                                                   (cfs)
               15.19
                         10.54
                                          0.0 0.0
 S351:
                                     0
                                                    0.0
               15.40
                         10.44
                                          0.0 0.0
 S352:
 S271:
               15.53
                         15.23
                                         -NR-
                                                0.0
                                                      0.0
 L8 Canal PT
                         14.94
                                    -1
                   S351 and S352 Temporary Pumps/S354 Spillway
 S351:
               10.54
                         15.19
                                       -NR - -NR - -NR - -NR - -NR -
 S352:
               10.44
                         15.40
                                       -NR - -NR - -NR - -NR -
 S354:
               10.94
                         15.15
                                     0 -NR--NR--NR-
Caloosahatchee River (S77, S78, S79)
 S47B:
               12.90
                         12.36
                                          2.0 2.0
 S47D:
               12.50
                         10.95
                                    73
                                          0.0
 S77:
   Spillway and Sector Preferred Flow:
                        10.76
                                   384 0.0 0.0 0.0 0.0
               15.28
                                     1
   Flow Due to Lockages+:
```

S78:

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Spillway and Sector Flow:

1047 0.5 0.0 2.5 0.0 10.81 2.89

Flow Due to Lockages+: -NR-

S79:

Spillway and Sector Flow:

3.16 2091 0.0 0.0 1.0 2.0 2.5 2.0 0.0 0.0 0.78

Flow Due to Lockages+: -NR-Percent of flow from S77 18% Chloride (ppm) - N

St. Lucie Canal (S308, S80)

S308:

Spillway and Sector Preferred Flow:

14.91 13.96 0.0 0.0 0.0 0.0

Flow Due to Lockages+: 1

S153: 18.66 13.66 49 0.0 0.0

S80:

Spillway and Sector Flow:

13.89 1.00 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0

Flow Due to Lockages+: -NR-Percent of flow from S308 NA %

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

Speedy Point Top Salinity (mg/ml) \*\*\*\* Speedy Point Bottom Salinity (mg/ml) \*\*\*\*

+ 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
aily Precipitation Totals	1-Day	3-Day	7-Day	Directio	n Speed
	(inches)	(inches)	(inches)	(Deg�)	(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:	-NR-	0.00	0.00	159	2
S78:	-NR-	0.00	0.00	120	4
S79:	-NR-	0.00	0.00	109	6
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:	-NR-	0.00	0.00	-NR-	-NR-
S80:	-NR-	0.00	0.00	99	1
Okeechobee Average	-NR-	0.00	0.00		
(Sites S78, S79 and					
Oke Nexrad Basin Avg	-NR-	0.00	0.00		

Okeechobee Lake Elevations 13 AUG 2023 13AUG23 - 1 Day =

15.35 Difference from 13AUG23 -0.01 15.34

12 AUG 2023

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8/14/23, 8:51 AM
                                                            oke
    13AUG23
             -2 Days =
                             11 AUG 2023
                                                   15.34
                                                                     -0.01
                             10 AUG 2023
    13AUG23
             -3 Days =
                                                   15.31
                                                                     -0.04
                             09 AUG 2023
             -4 Days =
                                                   15.30
                                                                     -0.05
    13AUG23
                                                                     -0.04
             -5 Days =
                             08 AUG 2023
    13AUG23
                                                   15.31
    13AUG23
             -6 Days =
                             07 AUG 2023
                                                   15.31
                                                                     -0.04
                             06 AUG 2023
    13AUG23 -7 Days =
                                                   15.30
                                                                     -0.05
                             14 JUL 2023
    13AUG23 - 30 Days =
                                                   14.88
                                                                     -0.47
                             13 AUG 2022
    13AUG23 -1 Year =
                                                    12.76
                                                                     -2.59
    13AUG23 -2 Year =
                             13 AUG 2021
                                                    14.17
                                                                     -1.18
 Long Term Mean 30day Avearge ET for Lake Alfred (Inches) = -NR-
                          Lake Okeachohee Net Inflow (LONIN)
```

	∟ake Okeechobee Net Inflo	ow (LONIN)	
Average	e Flow over the previous	14 days   Avg-Daily Flow	
13AUG23 Today =	13 AUG 2023 4071	MON   2552	
13AUG23 -1 Day =	12 AUG 2023 4224	SUN   366	
13AUG23 -2 Days =	11 AUG 2023 5152	SAT   7042	
13AUG23 -3 Days =	10 AUG 2023 4984	FRI   2806	
13AUG23 -4 Days =	09 AUG 2023 5118	THU   -1397	
13AUG23 -5 Days =	08 AUG 2023 5105	WED   763	
13AUG23 -6 Days =	07 AUG 2023 5443	TUE   2381	
13AUG23 -7 Days =	06 AUG 2023 5175	MON   2168	
13AUG23 -8 Days =	05 AUG 2023 5199	SUN   4338	
13AUG23 -9 Days =	04 AUG 2023 4889	SAT   4514	
13AUG23 -10 Days =	03 AUG 2023 4718	FRI 4672	
13AUG23 -11 Days =	02 AUG 2023 4687	THU   11094	
13AUG23 -12 Days =	01 AUG 2023 4194	WED 11108	
13AUG23 -13 Days =	31 JUL 2023 3618	TUE 4584	
		-	

_										
						Sé	55E			
					Average	Flov	v over	previous	14 days	Avg-Daily Flow
	13AUG23		Today	/=	13	AUG	2023	1561	MON	1104
	13AUG23	-1	Day	=	12	AUG	2023	1577	SUN	1160
	13AUG23	-2	Days	=	11	AUG	2023	1596	SAT	954
	13AUG23	-3	Days	=	10	AUG	2023	1625	FRI	1069
	13AUG23	-4	Days	=	09	AUG	2023	1629	THU	1479
	13AUG23	-5	Days	=	98	AUG	2023	1624	WED	1660
	13AUG23	-6	Days	=	07	AUG	2023	1616	TUE	1922
	13AUG23	-7	Days	=	06	AUG	2023	1593	MON	2298
	13AUG23	-8	Days	=	05	AUG	2023	1553	SUN	2026
	13AUG23	-9	Days	=	04	AUG	2023	1535	SAT	2041
	13AUG23	-10	Days	=	03	AUG	2023	1532	FRI	1498
	13AUG23	-11	Days	=	02	AUG	2023	1575	THU	1450
	13AUG23	-12	Days	=	01	AUG	2023	1636	WED	1812
	13AUG23	-13	Days	=	31	JUL	2023	1660	TUE	1378
			-							

S65EX1 Average Flow over previous 14 days | Avg-Daily Flow

				Average	LIOM	over	previous	14 days	- 1	Avg-paily Flow	1
13AUG23		Today	/=	13	AUG	2023	0	MON		0	
13AUG23	-1	Day	=	12	AUG	2023	0	SUN		0	
13AUG23	-2	Days	=	11	AUG	2023	0	SAT		0	
13AUG23	-3	Days	=	10	AUG	2023	0	FRI		0	
13AUG23	-4	Days	=	09	AUG	2023	0	THU		0	
13AUG23	-5	Days	=	08	AUG	2023	0	WED		0	
13AUG23	-6	Days	=	07	AUG	2023	0	TUE		0	
13AUG23	-7	Days	=	06	AUG	2023	0	MON		0	
13AUG23	-8	Days	=	05	AUG	2023	0	SUN		0	
13AUG23	-9	Days	=	04	AUG	2023	0	SAT		0	
13AUG23	-10	Days	=	03	AUG	2023	0	FRI		0	
13AUG23	-11	Days	=	02	AUG	2023	0	THU		0	
13AUG23	-12	Days	=	01	AUG	2023	0	WED		0	
13AUG23	-13	Days	=	31	JUL	2023	0	TUE	ĺ	0	

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Lake Okeechobee Outlets Last 14 Days

12 11 10 09 08 07 06 05 04 03 02 01	DATE AUG 2023	(ALL DAY) (AC-FT) 3 1451 3 2638 3 2168 3 1270 3 1535 3 1523 444 3 7 8 8 8 8 9 7	Below S-77 Discharge (ALL-DAY) (AC-FT) 762 726 1068 1297 1652 1805 831 1076 780 450 250 576 1005 768	S-78 Discharge (ALL DAY) (AC-FT) -NR- -NR- 2011 2252 2601 2590 2351 2014 2237 2540 3601 4159 2946	S-79 Discharge (ALL DAY) (AC-FT) -NR- 5694 5350 5716 4738 6236 7214 6707 7829 8237 7670 7337 8646 4877	
12 11 10 09 08 07 06 05 04 03 02 01	DATE AUG 2023	3 -105 3 -103 3 -61 3 18 3 4 3 -2 58 22 58 22 75 3 -14 3 -36 3 -29	S-351 Discharge (ALL DAY) (AC-FT) 0 0 0 0 0 0 0 0 0 157 308 0	S-352 Discharge (ALL DAY) (AC-FT) 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  195  0  0	L8 Canal Pt Discharge (ALL DAY) (AC-FT) -1 1 5 -14 0 -0 4 -5 -15 -2 6 8 -8 0
12 11 10 09 08 07 06 05 04 03 02 01	DATE AUG 2023	3 3 7 8 4 4 8 3 3 8 2 8 3 5 3 8 4 8 5 5 8 4 8 5 5 7	Below S-308 Discharge (ALL-DAY) (AC-FT) -NRNRNRNRNRNRNRNR			

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

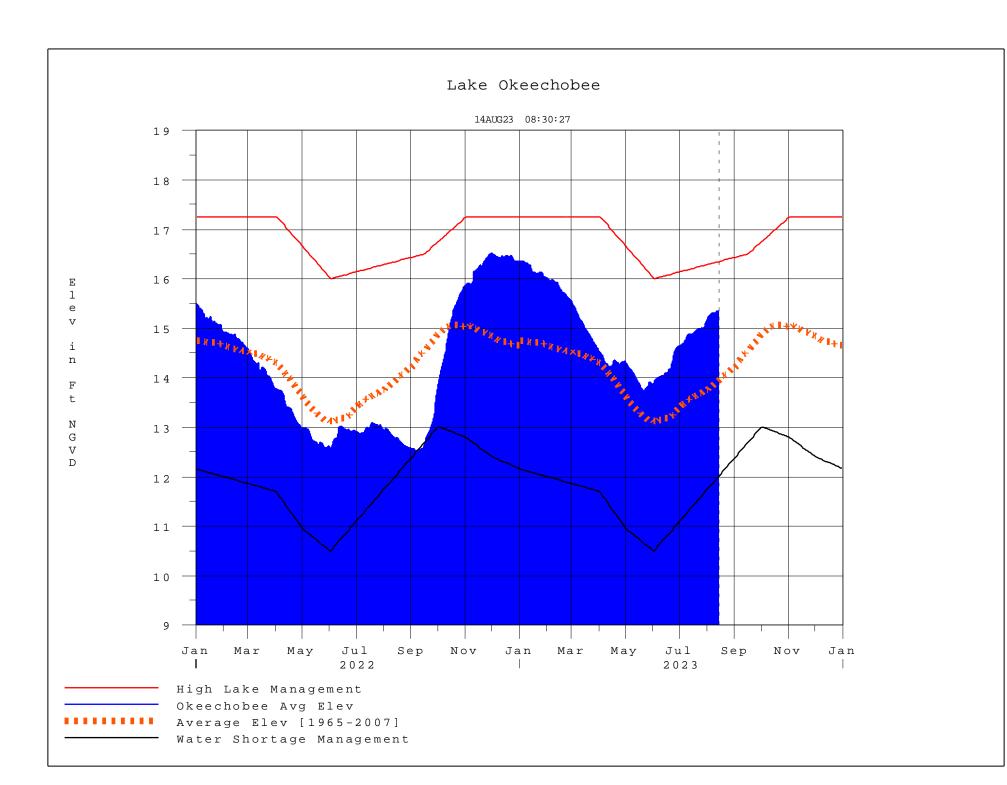
<sup>(</sup>I) - Flows preceded by "I" signify an instantaneous flow computed from the single value reported for the day

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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 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

Report Generated 14AUG2023 @ 08:39 \*\* 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
[on dono root]	[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