

Application of the Lake Okeechobee Regulation Schedule (LORS2008) on 04/03/2023 (ENSO Condition: Neutral)

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 sub-sampling of Neutral years and a sub-sampling of warm years of the Atlantic Multi-decadal Oscillation (AMO) in combination with Neutral 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*		SFWMD Empirical Method		Sub-sampling of Neutral ENSO Years**		Sub-sampling of AMO Warm + Neutral ENSO Years***	
	Value (ft)	<u>Condition</u>	Value (ft)	<u>Condition</u>	Value (ft)	<u>Condition</u>	Value (ft)	<u>Condition</u>
Current (Apr-Sep)	N/A	N/A	1.87	Wet	2.09	Very Wet	2.81	Very Wet
Multi Seasonal (Apr-Oct)	N/A	N/A	2.35	Normal	2.67	Wet	3.61	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 IRI ENSO forecast published.

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

Tributary Hydrologic Conditions:

-1783 cfs 14-day running average for Lake Okeechobee Net Inflow through 04/02/2023. According to the classification in Tributary Hydrologic Conditions table, this condition is Dry.

-2.24 for Palmer Drought Index on 04/01/2023. According to the classification in Tributary Hydrologic Conditions table, this condition is Dry.

The wetter of the two conditions above is **Dry**.

LORS2008 Classification Tables:

Lake Okeechobee Stage on 04/03/2023:

Lake Okeechobee Stage: **14.50 feet**

Lake Okeechobee Management Zone/Band		Bottom Elevation (feet, NGVD)	Current Lake Stage
High Lake Management Band		17.23	
Operational Band	High sub-band	16.48	
	Intermediate sub-band	15.48	
	Low sub-band	13.50	← 14.50 ft
Base Flow sub-band		12.60	
Beneficial Use sub-band		11.65	
Water Shortage Management Band			

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 LORS 2008 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 04/03/2023 (ENSO Condition- Neutral Watch):

Status for week ending 04/03/2023:

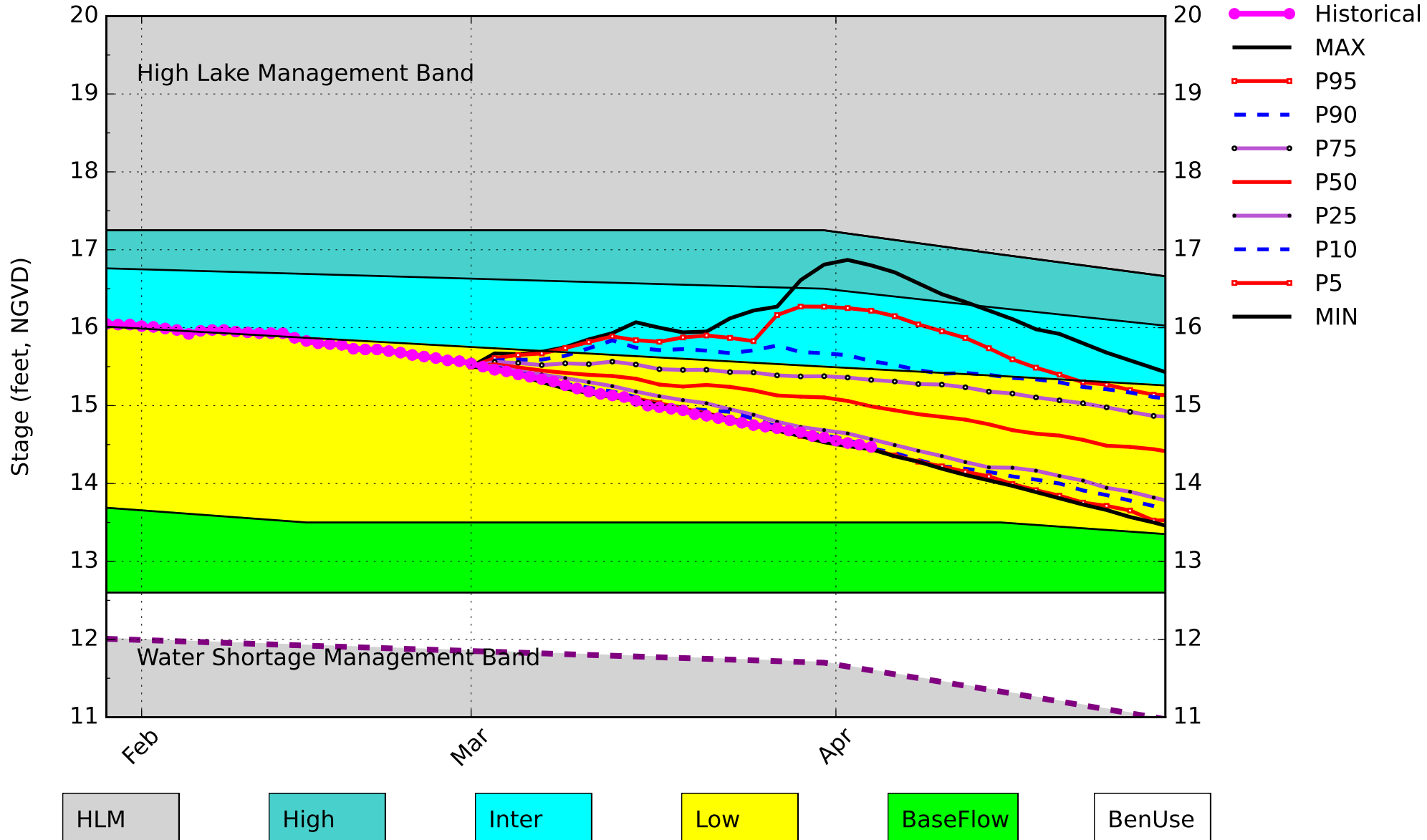
Water Supply Risk Evaluation

Area	Indicator	Value	Color Coded Scoring Scheme
LOK	Projected LOK Stage for the next two months	Low Sub-band	M
	Palmer Drought Index for LOK Tributary Conditions	-2.24 (Extremely Dry)	H
	CPC Precipitation Outlook	1 month: Equal Chances	L
		3 months: Equal Chances	L
	LOK Seasonal Net Inflow Outlook	2.09 ft	L
	ENSO Forecast	Normal to Extremely Wet	
	LOK Multi-Seasonal Net Inflow Outlook	2.67 ft	M
	ENSO Forecast	Normal	
WCAs	WCA 1: 3 Station Average (Sites 1-8C)	Above Line 1 (16.02 ft)	L
	WCA 2A: Site S11B	Above Line 1 (11.44 ft)	L
	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (8.93 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.

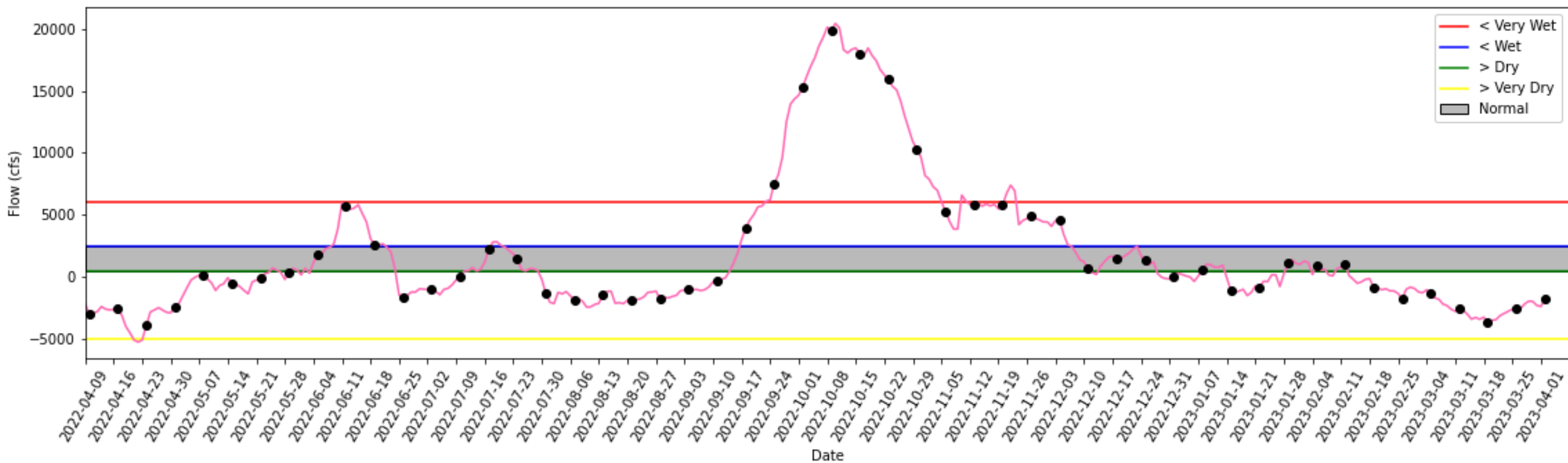
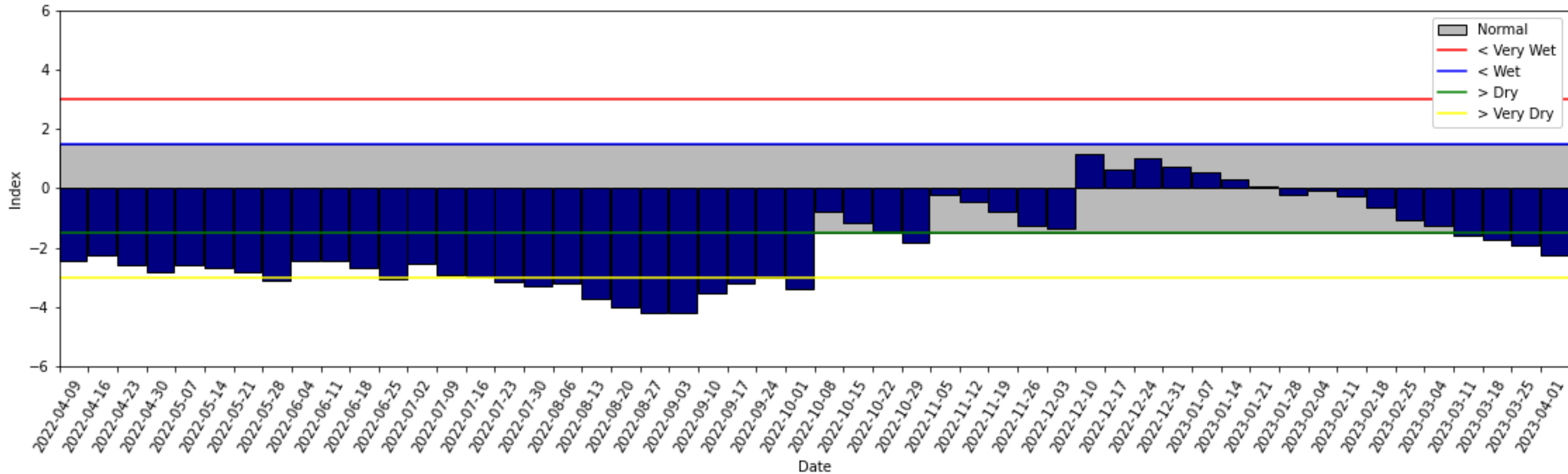
Lake Okeechobee SFWMM March 2023 Position Analysis

Percentiles PA



(See assumptions on the Position Analysis Results website)

Tributary Basin Condition Indicators as of April 02 2023



2008 LORS

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

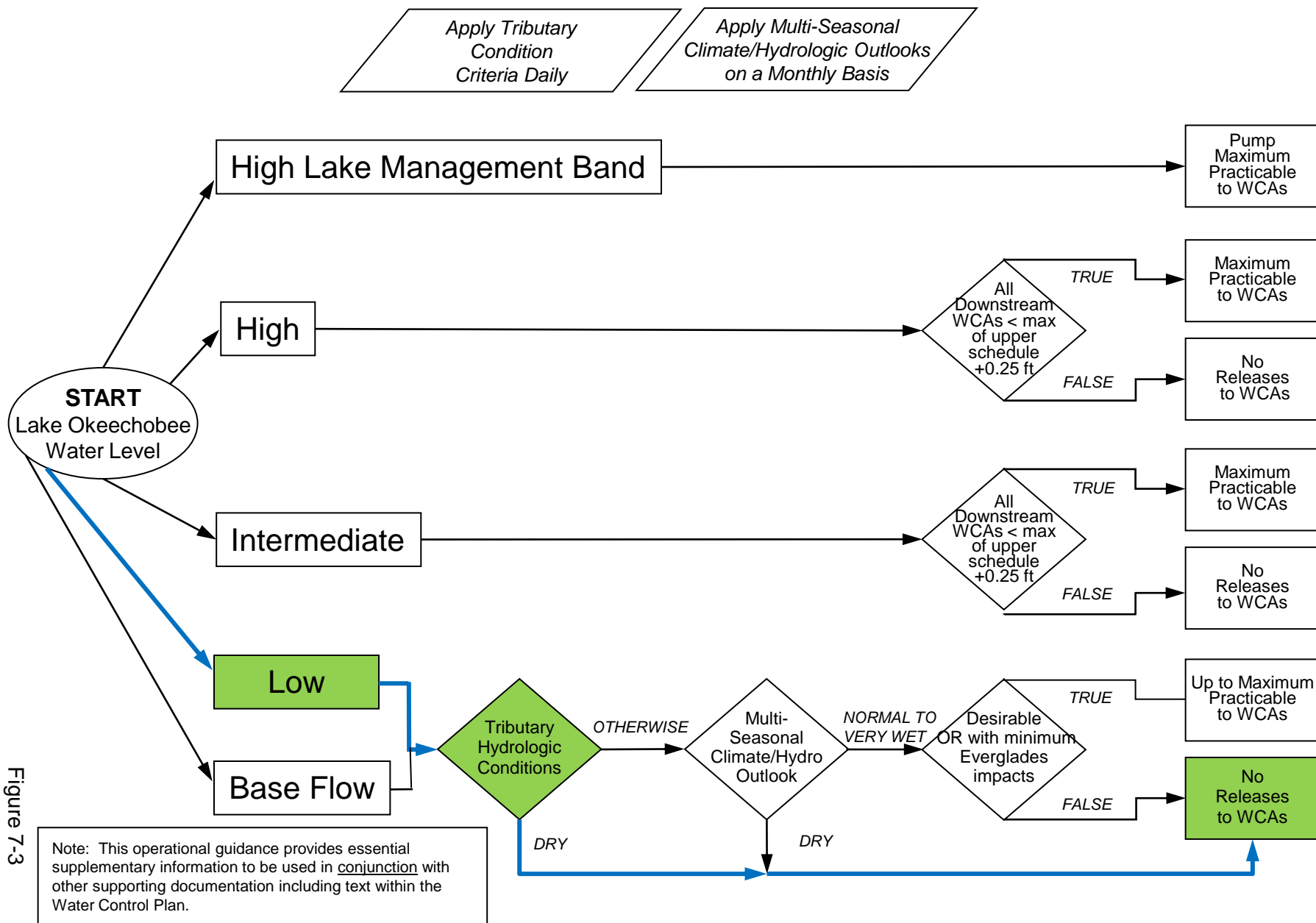


Figure 7-3

2008 LORS

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

Note: This operational guidance provides essential supplementary information to be used in conjunction with other supporting documentation including text within the Water Control Plan.

When conducting Base Flow releases, flows can be distributed East and West up to 650 cfs as needed to minimize impacts or provide benefits through S-80 and S-79

Apply Meteorological Forecasts on a Weekly Basis; apply Seasonal and Multi-Seasonal Climate/Hydrologic Outlooks on a Monthly Basis

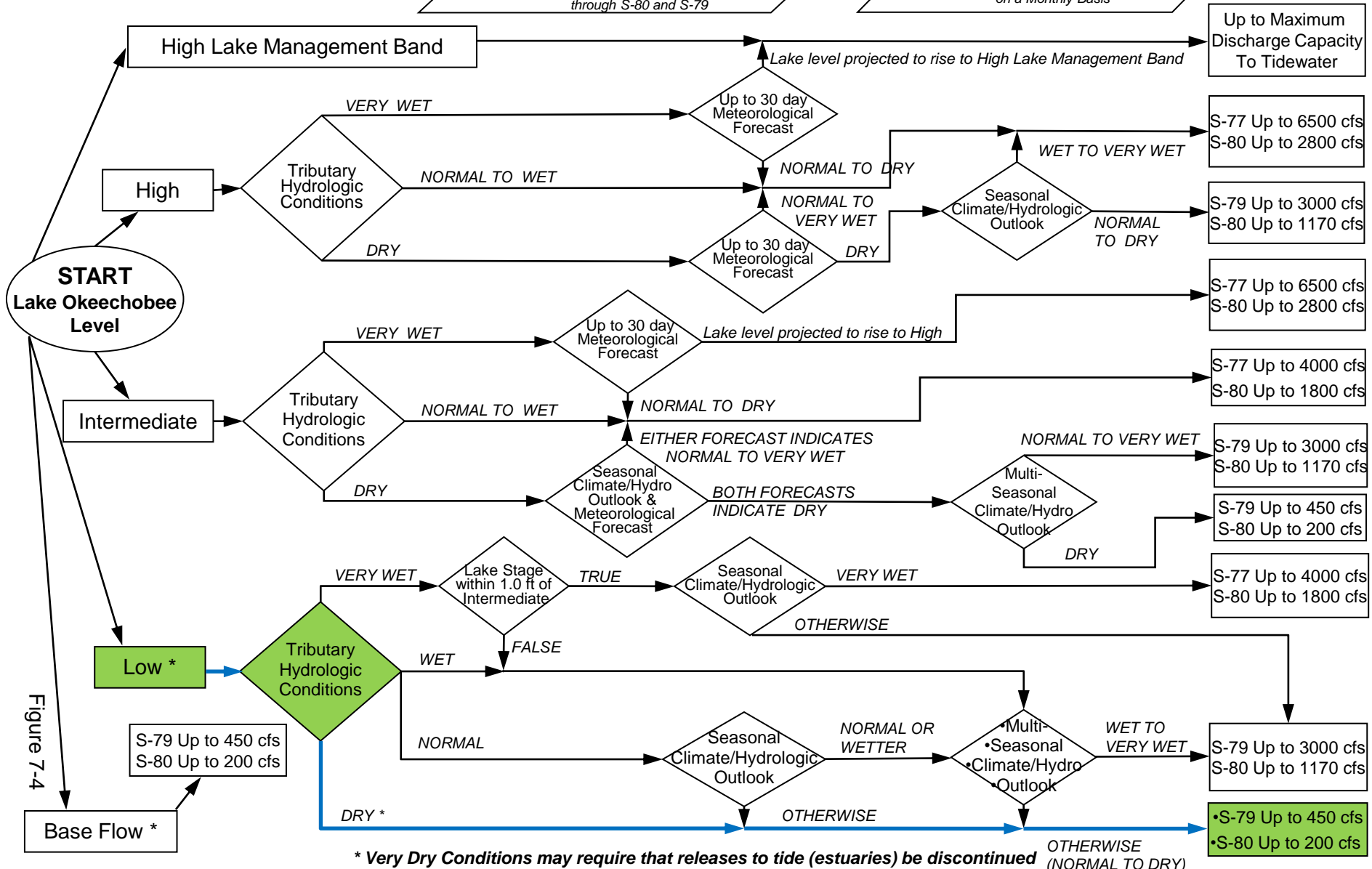
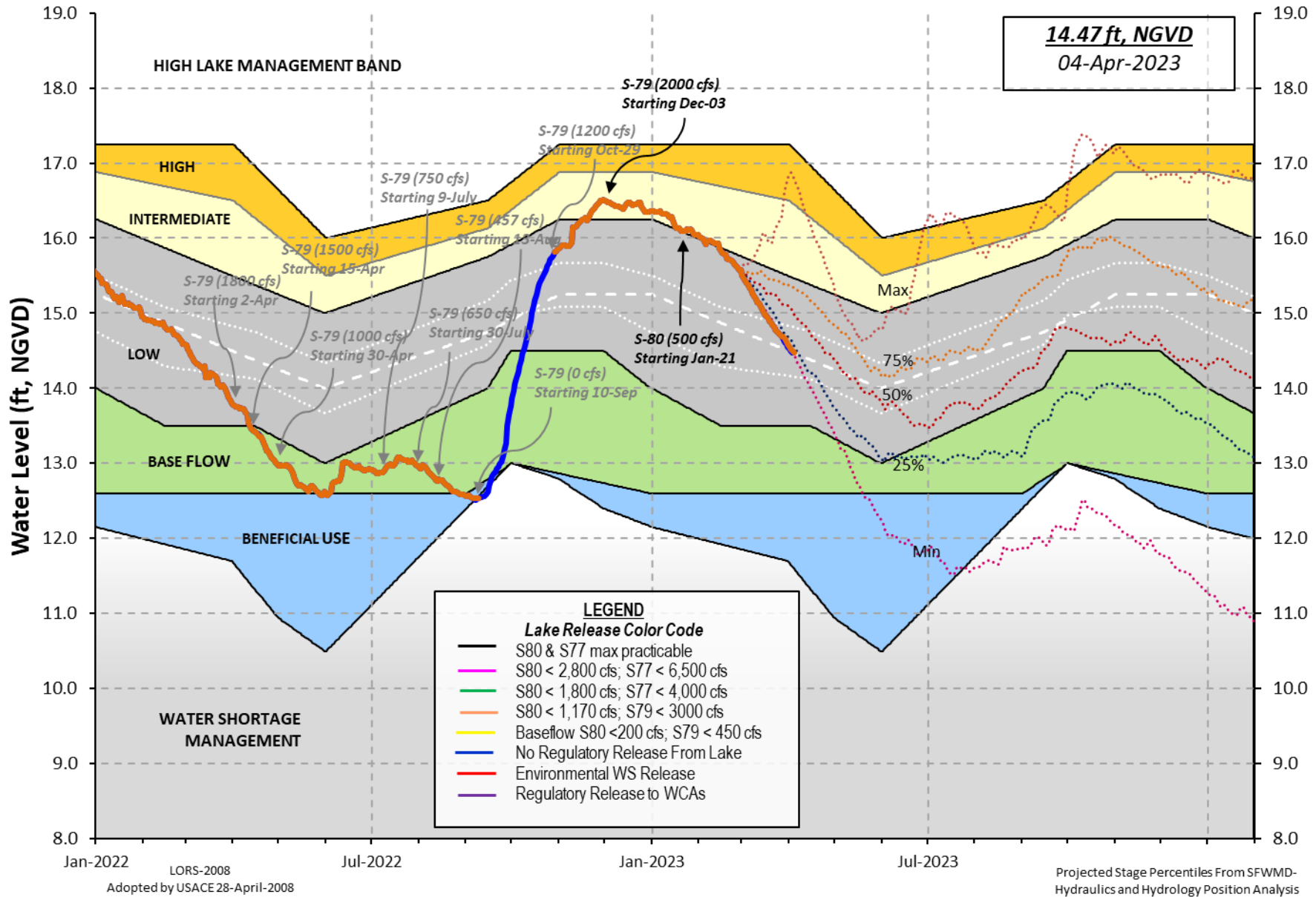


Figure 7-4

Lake Okeechobee Water Level History and Projected Stages



is equal to -NR-
 Lake Okeechobee (Change in Storage) Flow is -4235 cfs or -8400 AC-FT

	Headwater Elevation (ft-msl)	Tailwater Elevation (ft-msl)	Disch (cfs)	----- Gate Positions -----							
				#1 (ft)	#2 (ft)	#3 (ft)	#4 (ft)	#5 (ft)	#6 (ft)	#7 (ft)	#8 (ft)
(I) see note at bottom											
North East Shore											
S133 Pumps:	13.42	14.57	0	0	0	0	0	0	0	0	(cfs)
S193:											
S191:	18.57	14.53	0	0.0	0.0	0.0					
S135 Pumps:	13.19	14.38	0	0	0	0	0				(cfs)
S135 Culverts:			0	0.0	0.0						
North West Shore											
S65E:	20.97	14.44	485	-0.0	0.5	0.0	0.5	0.1	0.2		
S65EX1:	20.97	14.44	0								
S127 Pumps:	13.42	14.51	0	0	0	0	0	0			(cfs)
S127 Culvert:			0	0.0							
S129 Pumps:	13.15	14.47	0	0	0	0					(cfs)
S129 Culvert:			0	0.0							
S131 Pumps:	12.82	-NR-	0	0	0						(cfs)
S131 Culvert:			0								
Fisheating Creek											
nr Palmdale		27.58	0								
nr Lakeport											
C5:		-NR-	0	-NR-	-NR-	-NR-					
South Shore											
S4 Pumps:	11.98	-NR-	0	0	0	0					(cfs)
S169:	14.43	-NR-	-NR-	-NR-	-NR-	-NR-					
S310:	14.42		2								
S3 Pumps:	10.87	14.44	0	0	0	0					(cfs)
S354:	14.44	10.87	126	0.4	0.4						
S2 Pumps:	10.85	14.44	0	0	0	0	0				(cfs)
S351:	14.44	10.85	995	1.1	1.5	1.3					
S352:	14.49	11.32	691	0.0	3.2						
C10A:	-NR-	-NR-		-NR-	-NR-	-NR-	-NR-	-NR-	-NR-		
L8 Canal PT		14.43	237								

S351 and S352 Temporary Pumps/S354 Spillway

S351:	10.85	14.44	995	-NR-	-NR-	-NR-	-NR-	-NR-	-NR-		
S352:	11.32	14.49	691	-NR-	-NR-	-NR-	-NR-				
S354:	10.87	14.44	126	-NR-	-NR-	-NR-	-NR-				

Caloosahatchee River (S77, S78, S79)

S47B:	13.89	12.25		1.2	1.2						
S47D:	12.30	10.79	0	0.0							
S77:											
Spillway and Sector Preferred Flow:	14.18	10.71	2023	3.0	3.0	2.5	0.0				
Flow Due to Lockages+:			5								

S78:

Spillway and Sector Flow:
 10.68 2.83 1560 0.5 2.5 2.5 0.0
 Flow Due to Lockages+: 15

S79:

Spillway and Sector Flow:
 3.03 1.41 2205 0.0 0.0 1.0 2.0 2.0 2.0 2.0 0.0
 Flow Due to Lockages+: 9
 Percent of flow from S77 92%
 Chloride (ppm) 0

St. Lucie Canal (S308, S80)

S308:

Spillway and Sector Preferred Flow:
 14.27 14.33 514 0.0 3.0 3.0 0.0
 Flow Due to Lockages+: 0

S153: 18.69 14.05 0 0.0 0.0

S80:

Spillway and Sector Flow:
 14.26 0.83 516 0.0 0.5 0.0 0.0 0.0 0.5 0.0
 Flow Due to Lockages+: 22
 Percent of flow from S308 100%

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

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

Daily Precipitation Totals	1-Day (inches)	3-Day (inches)	7-Day (inches)	----- Wind -----	
				Direction (Deg)	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:	-NR-	0.00	0.00	272	8
S78:	-NR-	0.00	0.00	301	4
S79:	-NR-	0.00	0.00	258	1
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	92	7
S80:	-NR-	0.00	0.00	85	2
Okeechobee Average (Sites S78, S79 and S80 not included)	-NR-	0.00	0.00		

Oke Nexrad Basin Avg	-NR-	0.00	0.00		

Okeechobee Lake Elevations 02 APR 2023 14.50 Difference from 02APR23
 02APR23 -1 Day = 01 APR 2023 14.52 0.02

02APR23	-2 Days =	31 MAR 2023	14.55	0.05
02APR23	-3 Days =	30 MAR 2023	14.59	0.09
02APR23	-4 Days =	29 MAR 2023	14.61	0.11
02APR23	-5 Days =	28 MAR 2023	14.66	0.16
02APR23	-6 Days =	27 MAR 2023	14.68	0.18
02APR23	-7 Days =	26 MAR 2023	14.71	0.21
02APR23	-30 Days =	03 MAR 2023	15.44	0.94
02APR23	-1 Year =	02 APR 2022	13.75	-0.75
02APR23	-2 Year =	02 APR 2021	14.37	-0.13

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
02APR23	Today =	02 APR 2023	-1663 MON	354
02APR23	-1 Day =	01 APR 2023	-2305 SUN	-3153
02APR23	-2 Days =	31 MAR 2023	-2226 SAT	-5676
02APR23	-3 Days =	30 MAR 2023	-1940 FRI	-446
02APR23	-4 Days =	29 MAR 2023	-1948 THU	-5741
02APR23	-5 Days =	28 MAR 2023	-2178 WED	435
02APR23	-6 Days =	27 MAR 2023	-2693 TUE	-2564
02APR23	-7 Days =	26 MAR 2023	-2551 MON	-298
02APR23	-8 Days =	25 MAR 2023	-2590 SUN	76
02APR23	-9 Days =	24 MAR 2023	-2759 SAT	-1553
02APR23	-10 Days =	23 MAR 2023	-2929 FRI	-1166
02APR23	-11 Days =	22 MAR 2023	-3108 THU	-1291
02APR23	-12 Days =	21 MAR 2023	-3431 WED	-1811
02APR23	-13 Days =	20 MAR 2023	-3481 TUE	-452

S65E

Average Flow over previous 14 days				Avg-Daily Flow
02APR23	Today=	02 APR 2023	617 MON	559
02APR23	-1 Day =	01 APR 2023	621 SUN	600
02APR23	-2 Days =	31 MAR 2023	621 SAT	501
02APR23	-3 Days =	30 MAR 2023	634 FRI	732
02APR23	-4 Days =	29 MAR 2023	630 THU	786
02APR23	-5 Days =	28 MAR 2023	627 WED	604
02APR23	-6 Days =	27 MAR 2023	631 TUE	597
02APR23	-7 Days =	26 MAR 2023	634 MON	608
02APR23	-8 Days =	25 MAR 2023	644 SUN	607
02APR23	-9 Days =	24 MAR 2023	652 SAT	601
02APR23	-10 Days =	23 MAR 2023	661 FRI	604
02APR23	-11 Days =	22 MAR 2023	670 THU	629
02APR23	-12 Days =	21 MAR 2023	680 WED	611
02APR23	-13 Days =	20 MAR 2023	684 TUE	598

S65EX1

Average Flow over previous 14 days				Avg-Daily Flow
02APR23	Today=	02 APR 2023	0 MON	0
02APR23	-1 Day =	01 APR 2023	0 SUN	0
02APR23	-2 Days =	31 MAR 2023	0 SAT	0
02APR23	-3 Days =	30 MAR 2023	0 FRI	0
02APR23	-4 Days =	29 MAR 2023	0 THU	0
02APR23	-5 Days =	28 MAR 2023	0 WED	0
02APR23	-6 Days =	27 MAR 2023	0 TUE	0
02APR23	-7 Days =	26 MAR 2023	0 MON	0
02APR23	-8 Days =	25 MAR 2023	0 SUN	0
02APR23	-9 Days =	24 MAR 2023	0 SAT	0
02APR23	-10 Days =	23 MAR 2023	0 FRI	0
02APR23	-11 Days =	22 MAR 2023	0 THU	0
02APR23	-12 Days =	21 MAR 2023	0 WED	0
02APR23	-13 Days =	20 MAR 2023	0 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)
02 APR 2023	4027	3269	3132	4410
01 APR 2023	2922	2574	2322	3111
31 MAR 2023	3275	3271	2562	3628
30 MAR 2023	4554	3723	3492	5173
29 MAR 2023	5429	5504	3993	5428
28 MAR 2023	4148	4383	3633	4639
27 MAR 2023	2961	3195	2451	3336
26 MAR 2023	2855	2896	1617	2955
25 MAR 2023	2798	3881	2985	3465
24 MAR 2023	3561	5162	3887	4411
23 MAR 2023	4626	4644	3659	4989
22 MAR 2023	4742	4542	3242	4303
21 MAR 2023	3941	3848	3139	3432
20 MAR 2023	2906	3038	2881	3476

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)
02 APR 2023	5	1973	1370	250	470
01 APR 2023	30	1490	1170	0	679
31 MAR 2023	31	1001	615	0	638
30 MAR 2023	22	1484	677	126	672
29 MAR 2023	181	1566	684	632	736
28 MAR 2023	107	1639	774	1243	775
27 MAR 2023	117	1734	354	966	755
26 MAR 2023	54	1976	641	887	724
25 MAR 2023	26	2263	963	958	727
24 MAR 2023	131	2477	1214	806	705
23 MAR 2023	115	2199	1166	1034	730
22 MAR 2023	128	2125	1033	897	729
21 MAR 2023	4	2346	1055	438	706
20 MAR 2023	184	1790	736	765	705

DATE	S-308 Discharge (ALL DAY) (AC-FT)	Below S-308 Discharge (ALL-DAY) (AC-FT)	S-80 Discharge (ALL-DAY) (AC-FT)
02 APR 2023	-1589	-NR-	1065
01 APR 2023	190	-NR-	775
31 MAR 2023	-1216	-NR-	924
30 MAR 2023	-181	-NR-	36
29 MAR 2023	681	-NR-	56
28 MAR 2023	845	-NR-	774
27 MAR 2023	710	-NR-	873
26 MAR 2023	718	-NR-	670
25 MAR 2023	794	-NR-	777
24 MAR 2023	773	-NR-	890
23 MAR 2023	603	-NR-	34
22 MAR 2023	815	-NR-	658
21 MAR 2023	812	-NR-	816
20 MAR 2023	815	-NR-	645

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

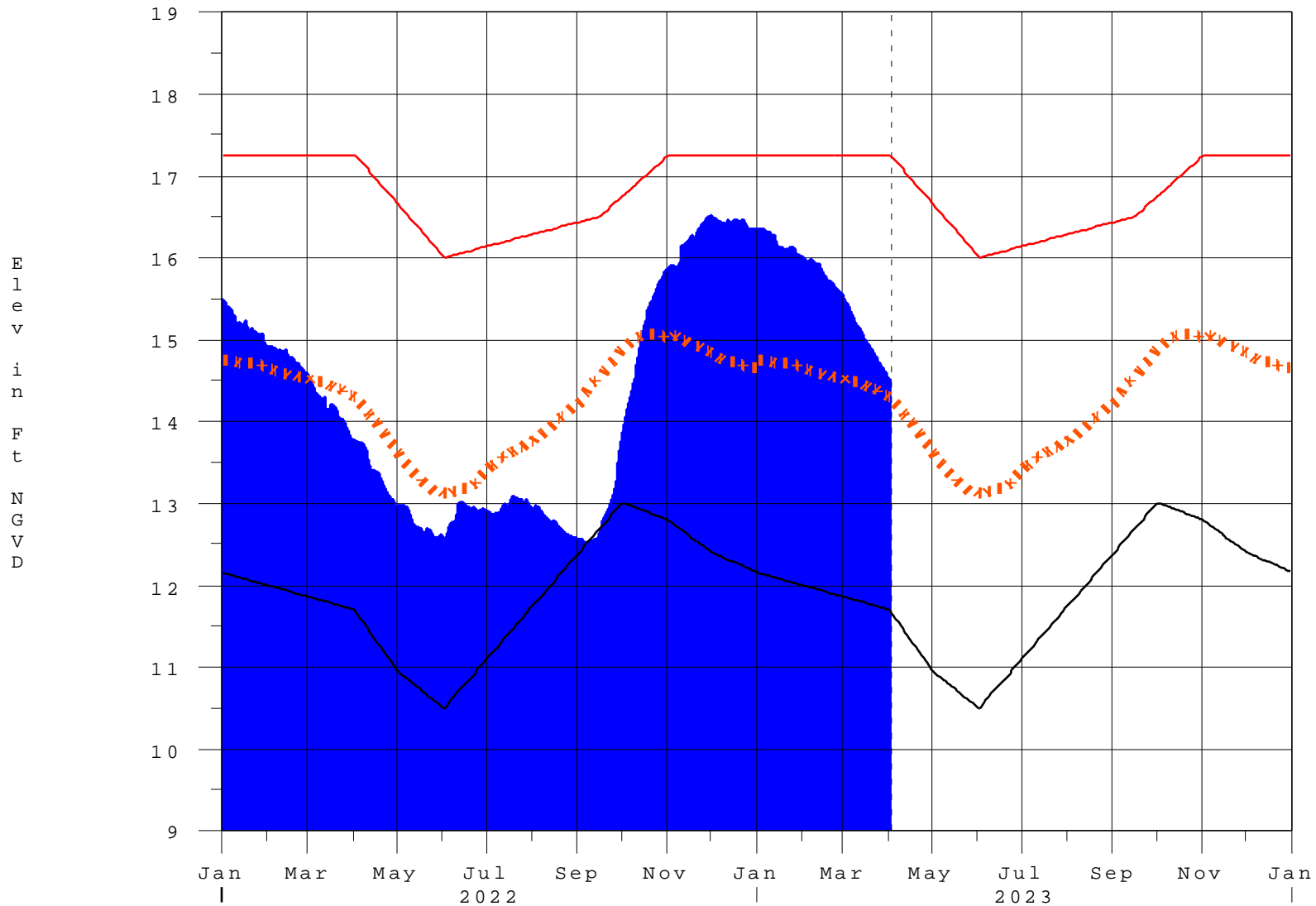
(I) - Flows preceded by "I" signify an instantaneous flow computed from the single value reported for the day

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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 Okeechobee 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 03APR2023 @ 10:07 ** Preliminary Data - Subject to Revision **

Lake Okeechobee

03APR23 10:00:18



- High Lake Management
- Okeechobee Avg Elev
- Average Elev [1965-2007]
- Water Shortage Management

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 \geq 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