

Application of the Lake Okeechobee Regulation Schedule (LORS2008) on 04/10/2023 (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	1.81	Wet	2.04	Very Wet	2.75	Very Wet
Multi Seasonal (Apr-Oct)	N/A	N/A	2.28	Normal	2.61	Wet	3.55	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:

-2132 cfs 14-day running average for Lake Okeechobee Net Inflow through 04/10/2023. According to the classification in Tributary Hydrologic Conditions table, this condition is Dry.

-2.43 for Palmer Drought Index on 04/08/2023. 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 04/10/2023:

Lake Okeechobee Stage: **14.28 feet**

Lake Okeechobee Management Zone/Band		Bottom Elevation (feet, NGVD)	Current Lake Stage
High Lake Management Band		17.09	
Operational Band	High sub-band	16.37	
	Intermediate sub-band	15.43	
	Low sub-band	13.50	← 14.28 ft
Base Flow sub-band		12.60	
Beneficial Use sub-band		11.48	
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 04/10/2023 (ENSO Condition- Neutral Watch):

Status for week ending 04/10/2023:

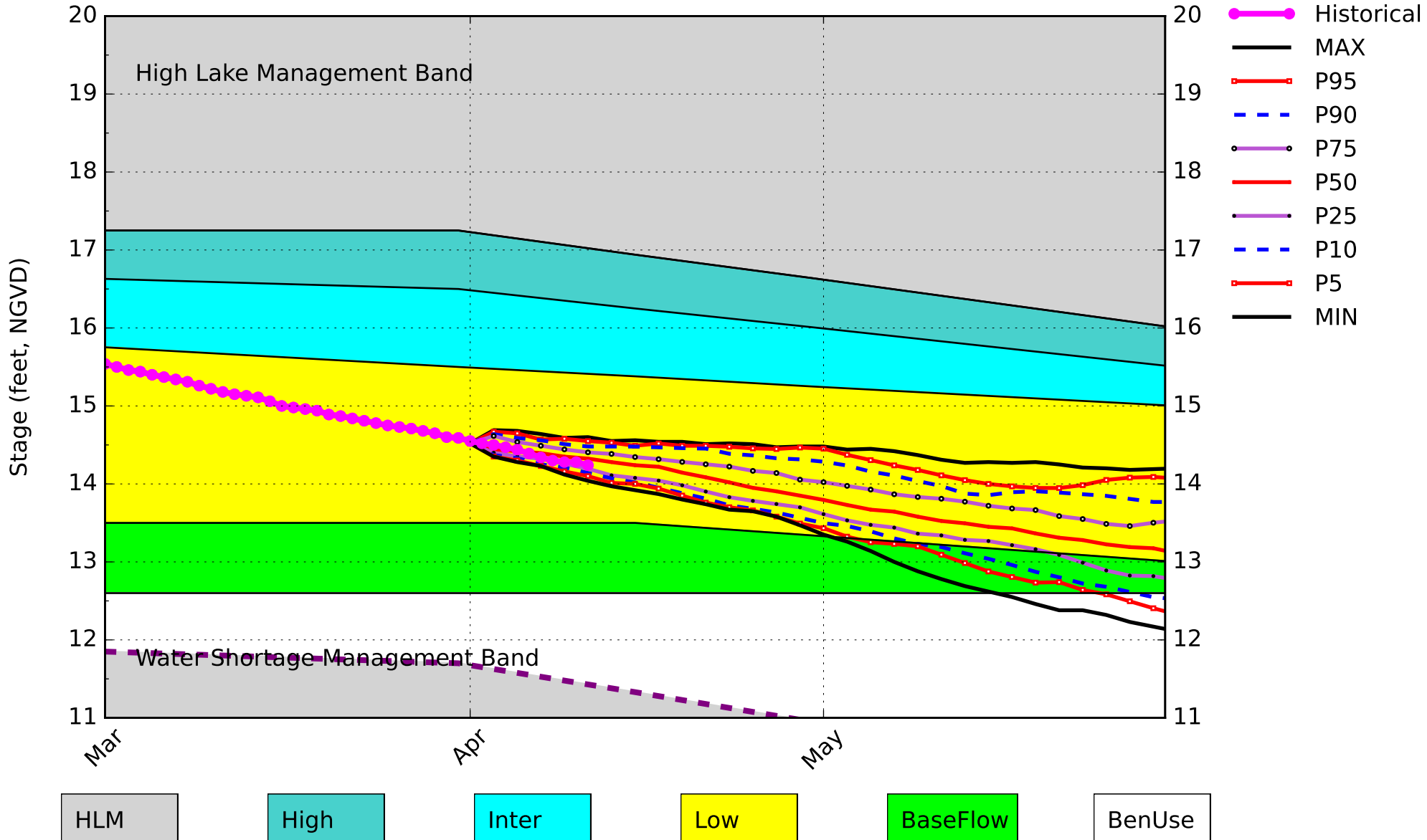
Water Supply Risk Evaluation

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	-2.43 (Extremely Dry)	H
	CPC Precipitation Outlook	1 month: Equal Chances	L
		3 months: Equal Chances	L
	LOK Seasonal Net Inflow Outlook	2.04 ft	L
	ENSO Forecast	Normal to Extremely Wet	
	LOK Multi-Seasonal Net Inflow Outlook	2.61 ft	M
	ENSO Forecast	Normal	
WCAs	WCA 1: 3 Station Average (Sites 1-8C)	Above Line 1 (15.87 ft)	L
	WCA 2A: Site S11B	Above Line 1 (11.20 ft)	L
	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (8.85 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.

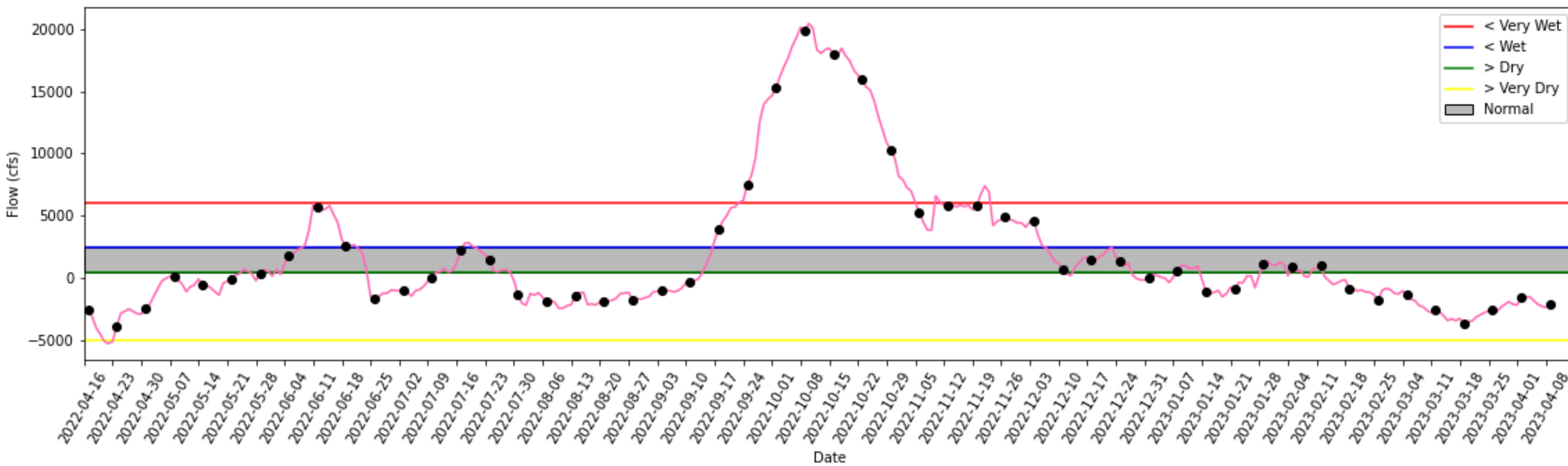
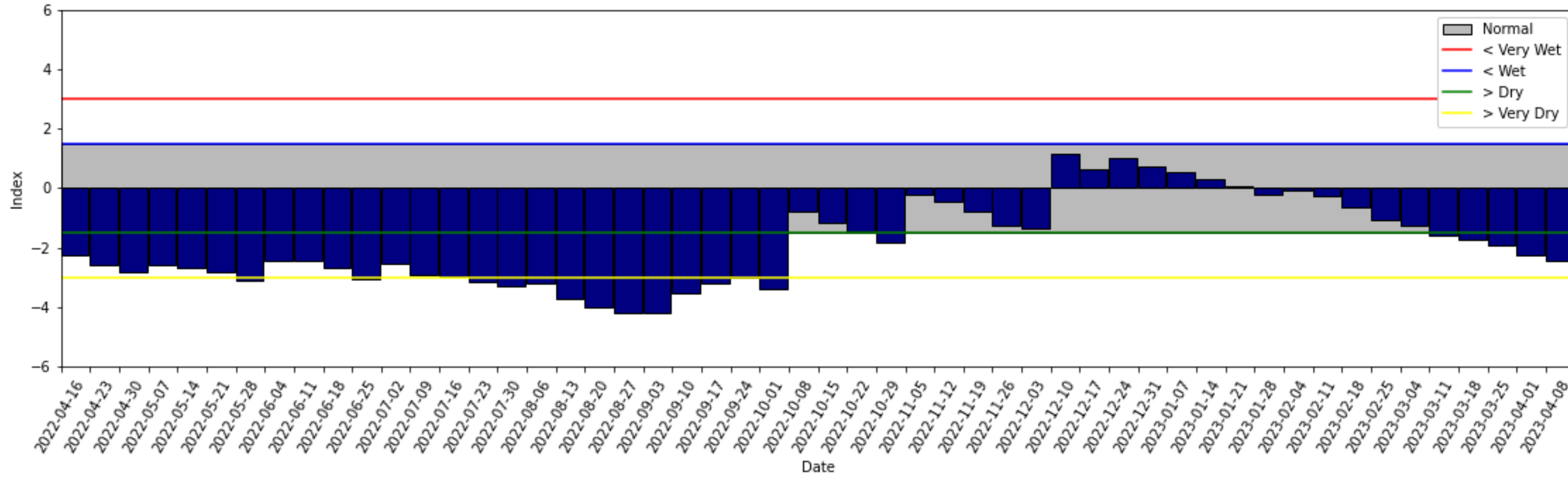
Lake Okeechobee SFWMM April 2023 Position Analysis

Percentiles PA



(See assumptions on the Position Analysis Results website)

Tributary Basin Condition Indicators as of April 09 2023



2008 LORS

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

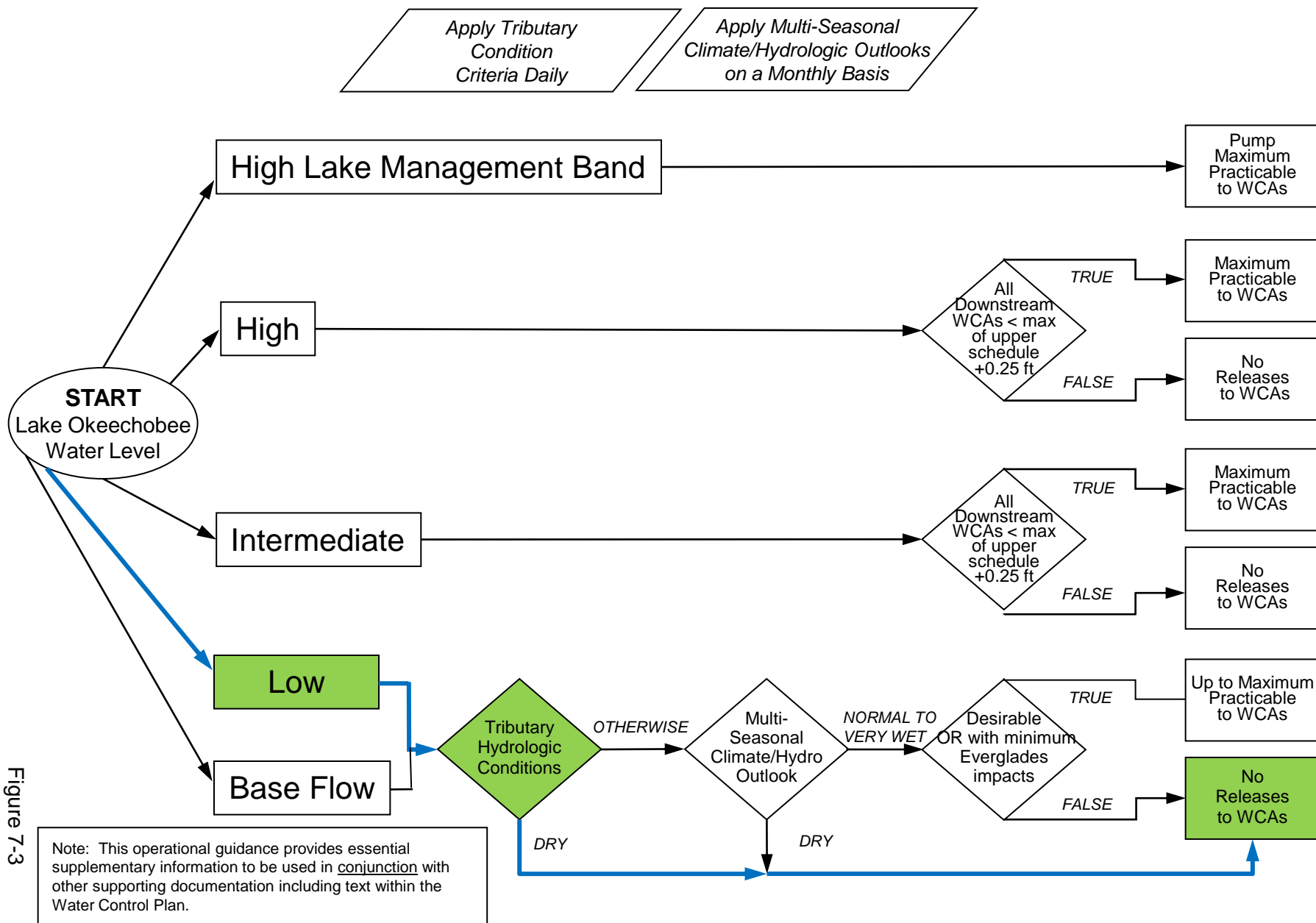


Figure 7-3

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

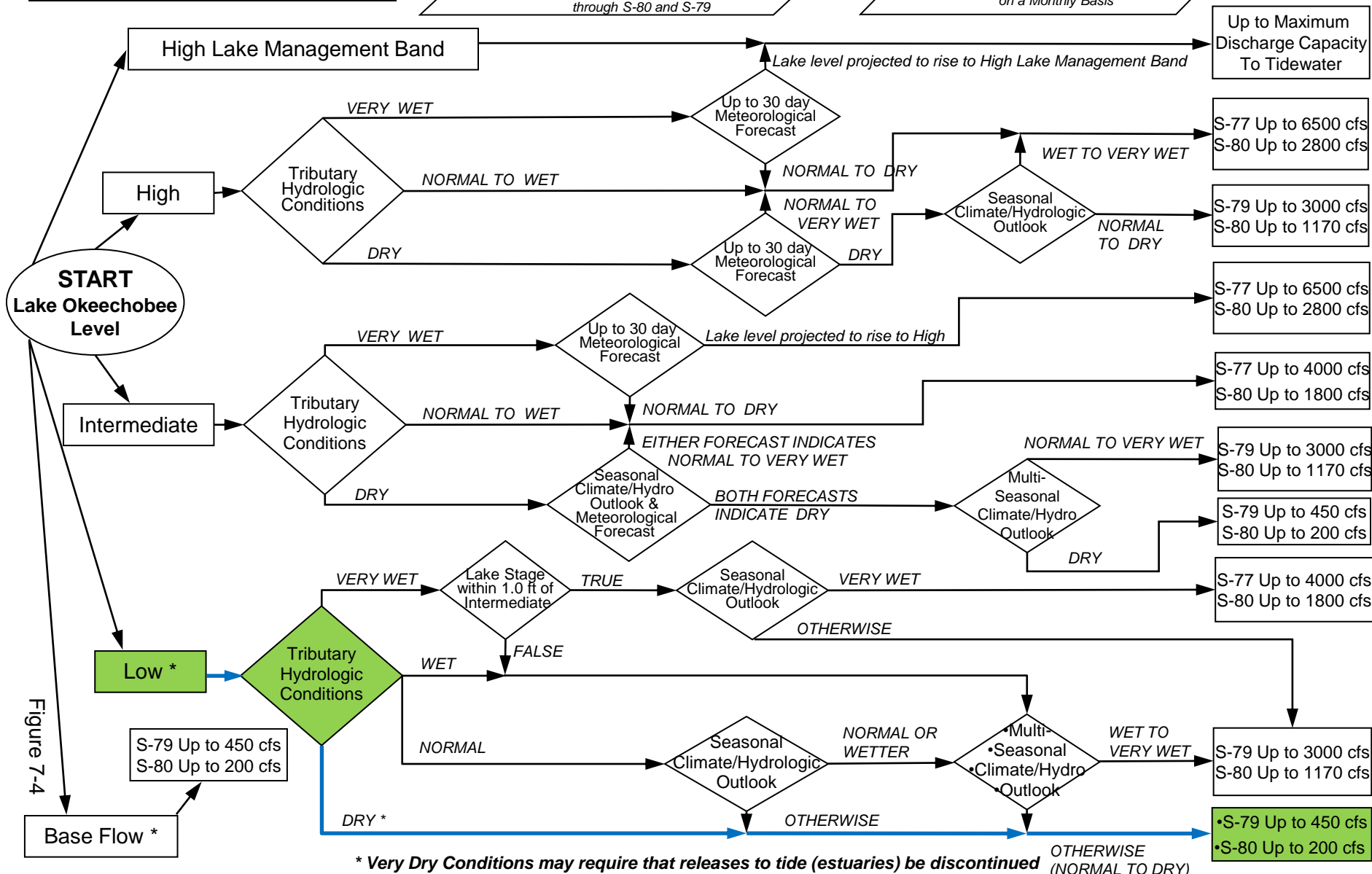
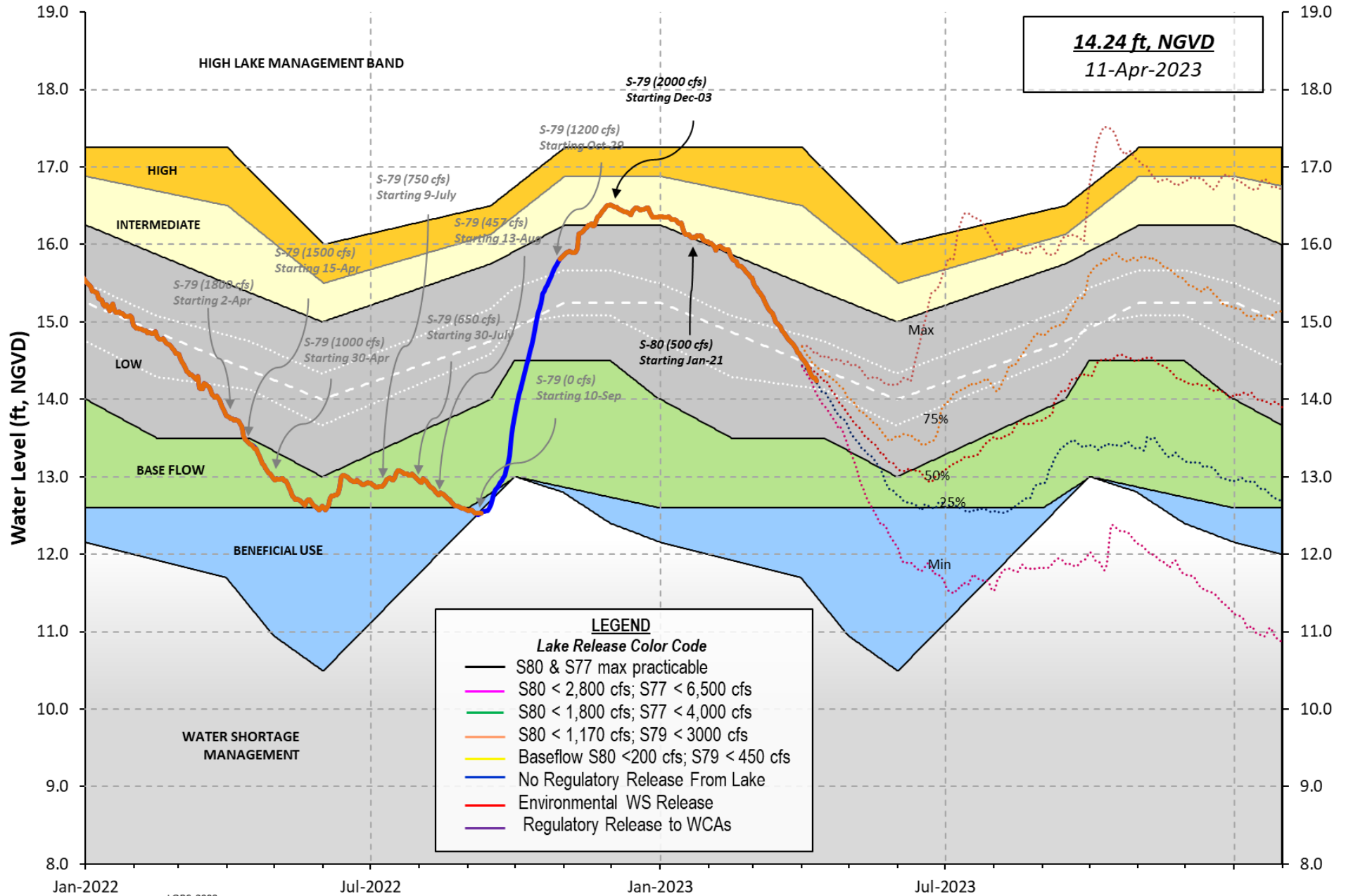


Figure 7-4

Lake Okeechobee Water Level History and Projected Stages



is equal to -NR-
 Lake Okeechobee (Change in Storage) Flow is 0 cfs or 0 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:	13.37	14.05	0	0	0	0	0	0	0	0	(cfs)
S193:											
S191:	18.17	14.07	0	0.0	0.0	0.0					
S135 Pumps:	13.26	14.06	0	0	0	0	0				(cfs)
S135 Culverts:			0	0.0	0.0						
North West Shore											
S65E:	20.84	14.13	324	-0.0	0.0	0.0	0.3	0.0	0.3		
S65EX1:	20.84	14.13	0								
S127 Pumps:	13.27	14.07	0	0	0	0	0	0			(cfs)
S127 Culvert:			0	0.0							
S129 Pumps:	13.06	14.23	0	0	0	0					(cfs)
S129 Culvert:			0	0.0							
S131 Pumps:	12.73	-NR-	0	0	0						(cfs)
S131 Culvert:			0								
Fisheating Creek											
nr Palmdale		27.48	0								
nr Lakeport											
C5:		-NR-	0	-NR-	-NR-	-NR-					
South Shore											
S4 Pumps:	12.19	-NR-	0	0	0	0					(cfs)
S169:	14.51	-NR-	-NR-	-NR-	-NR-	-NR-					
S310:	14.43		36								
S3 Pumps:	11.03	14.66	0	0	0	0					(cfs)
S354:	14.66	11.03	0	0.0	0.0						
S2 Pumps:	10.61	14.64	0	0	0	0	0				(cfs)
S351:	14.64	10.61	0	0.0	0.0	0.0					
S352:	14.47	10.37	0	0.0	0.0						
C10A:	-NR-	-NR-		-NR-	-NR-	-NR-	-NR-	-NR-	-NR-		
L8 Canal PT		14.29	344								

S351 and S352 Temporary Pumps/S354 Spillway

S351:	10.61	14.64	0	-NR-	-NR-	-NR-	-NR-	-NR-	-NR-		
S352:	10.37	14.47	0	-NR-	-NR-	-NR-	-NR-				
S354:	11.03	14.66	0	-NR-	-NR-	-NR-	-NR-				

Caloosahatchee River (S77, S78, S79)

S47B:	14.00	12.20		0.8	0.8						
S47D:	12.25	10.95	0	0.0							
S77:											
Spillway and Sector Preferred Flow:	14.10	10.88	1650	2.5	2.5	2.5	0.0				
Flow Due to Lockages+:			-NR-								

S78:

Spillway and Sector Flow:
 10.81 2.96 1668 2.0 0.0 2.5 1.5
 Flow Due to Lockages+: 13

S79:

Spillway and Sector Flow:
 3.08 0.95 2307 0.0 0.0 2.0 2.5 2.0 2.0 2.0 0.0
 Flow Due to Lockages+: 6
 Percent of flow from S77 72%
 Chloride (ppm) 0

St. Lucie Canal (S308, S80)

S308:

Spillway and Sector Preferred Flow:
 14.08 14.15 449 3.0 3.0 3.0 0.0
 Flow Due to Lockages+: -NR-

S153: 18.95 13.91 0 0.0 0.0

S80:

Spillway and Sector Flow:
 14.09 1.84 510 0.0 0.5 0.0 0.0 0.0 0.5 0.0
 Flow Due to Lockages+: 15
 Percent of flow from S308 88%

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	7	8
S78:	-NR-	0.00	0.00	341	2
S79:	-NR-	0.00	0.00	323	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:	-NR-	0.00	0.00	343	11
S80:	-NR-	0.00	0.00	19	5
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 09 APR 2023 14.28 Difference from 09APR23
 09APR23 -1 Day = 08 APR 2023 14.28 0.00

09APR23	-2 Days =	07 APR 2023	14.30	0.02
09APR23	-3 Days =	06 APR 2023	14.34	0.06
09APR23	-4 Days =	05 APR 2023	14.39	0.11
09APR23	-5 Days =	04 APR 2023	14.44	0.16
09APR23	-6 Days =	03 APR 2023	14.47	0.19
09APR23	-7 Days =	02 APR 2023	14.50	0.22
09APR23	-30 Days =	10 MAR 2023	15.18	0.90
09APR23	-1 Year =	09 APR 2022	13.65	-0.63
09APR23	-2 Year =	09 APR 2021	14.15	-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
09APR23	Today =	09 APR 2023	-2131 MON	2441
09APR23	-1 Day =	08 APR 2023	-2327 SUN	-1069
09APR23	-2 Days =	07 APR 2023	-2245 SAT	-3765
09APR23	-3 Days =	06 APR 2023	-2087 FRI	-5534
09APR23	-4 Days =	05 APR 2023	-1775 THU	-5411
09APR23	-5 Days =	04 APR 2023	-1481 WED	-986
09APR23	-6 Days =	03 APR 2023	-1540 TUE	-996
09APR23	-7 Days =	02 APR 2023	-1501 MON	354
09APR23	-8 Days =	01 APR 2023	-2143 SUN	-2649
09APR23	-9 Days =	31 MAR 2023	-2100 SAT	-4682
09APR23	-10 Days =	30 MAR 2023	-1885 FRI	2300
09APR23	-11 Days =	29 MAR 2023	-2089 THU	-5597
09APR23	-12 Days =	28 MAR 2023	-2330 WED	-1682
09APR23	-13 Days =	27 MAR 2023	-2693 TUE	-2564

S65E

Average Flow over previous 14 days				Avg-Daily Flow
09APR23	Today=	09 APR 2023	508 MON	369
09APR23	-1 Day =	08 APR 2023	526 SUN	338
09APR23	-2 Days =	07 APR 2023	545 SAT	350
09APR23	-3 Days =	06 APR 2023	563 FRI	353
09APR23	-4 Days =	05 APR 2023	581 THU	363
09APR23	-5 Days =	04 APR 2023	600 WED	443
09APR23	-6 Days =	03 APR 2023	612 TUE	522
09APR23	-7 Days =	02 APR 2023	617 MON	558
09APR23	-8 Days =	01 APR 2023	621 SUN	593
09APR23	-9 Days =	31 MAR 2023	622 SAT	515
09APR23	-10 Days =	30 MAR 2023	634 FRI	718
09APR23	-11 Days =	29 MAR 2023	631 THU	795
09APR23	-12 Days =	28 MAR 2023	627 WED	604
09APR23	-13 Days =	27 MAR 2023	631 TUE	597

S65EX1

Average Flow over previous 14 days				Avg-Daily Flow
09APR23	Today=	09 APR 2023	0 MON	0
09APR23	-1 Day =	08 APR 2023	0 SUN	0
09APR23	-2 Days =	07 APR 2023	0 SAT	0
09APR23	-3 Days =	06 APR 2023	0 FRI	0
09APR23	-4 Days =	05 APR 2023	0 THU	0
09APR23	-5 Days =	04 APR 2023	0 WED	0
09APR23	-6 Days =	03 APR 2023	0 TUE	0
09APR23	-7 Days =	02 APR 2023	0 MON	0
09APR23	-8 Days =	01 APR 2023	0 SUN	0
09APR23	-9 Days =	31 MAR 2023	0 SAT	0
09APR23	-10 Days =	30 MAR 2023	0 FRI	0
09APR23	-11 Days =	29 MAR 2023	0 THU	0
09APR23	-12 Days =	28 MAR 2023	0 WED	0
09APR23	-13 Days =	27 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)
09 APR 2023	-NR-	3514	3379	4643
08 APR 2023	3133	3215	2359	3432
07 APR 2023	2745	2841	2361	3165
06 APR 2023	2915	3071	2327	3164
05 APR 2023	4079	4318	2461	3802
04 APR 2023	4849	5173	3474	4911
03 APR 2023	4552	4481	3451	5001
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

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)
09 APR 2023	71	0	0	0	682
08 APR 2023	79	741	450	104	608
07 APR 2023	95	2153	1298	448	651
06 APR 2023	89	2067	1266	591	670
05 APR 2023	-33	1928	1152	511	595
04 APR 2023	-76	1911	1024	266	156
03 APR 2023	-34	1927	1408	559	508
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

DATE	S-308 Discharge (ALL DAY) (AC-FT)	Below S-308 Discharge (ALL-DAY) (AC-FT)	S-80 Discharge (ALL-DAY) (AC-FT)
09 APR 2023	-NR-	-NR-	1042
08 APR 2023	-NR-	-NR-	1053
07 APR 2023	-NR-	-NR-	1027
06 APR 2023	2156	-NR-	1020
05 APR 2023	2300	-NR-	1016
04 APR 2023	5	-NR-	1055
03 APR 2023	477	-NR-	1576
02 APR 2023	-1632	-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	846	-NR-	774
27 MAR 2023	710	-NR-	873

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

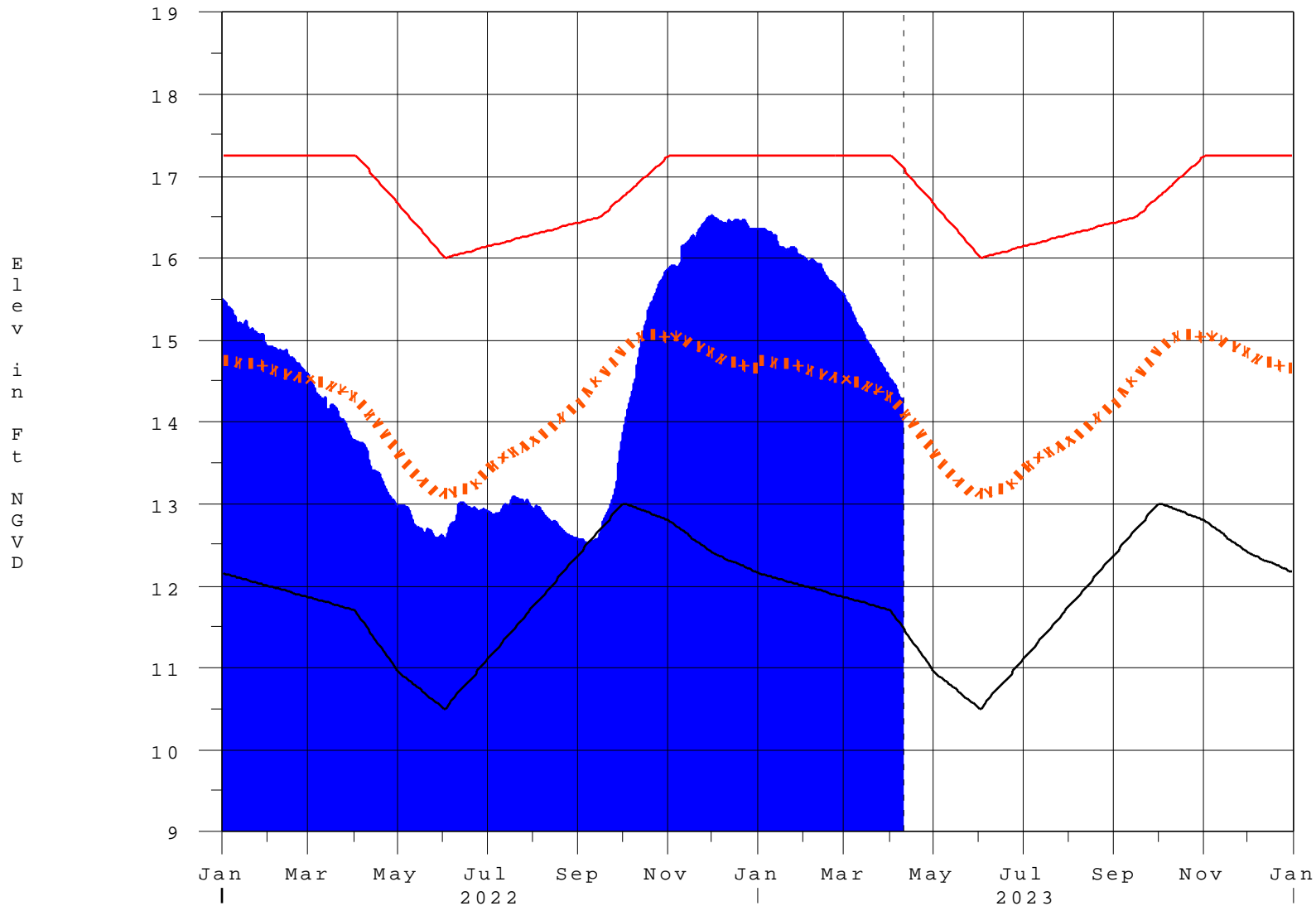
(I) - Flows preceded by "I" signify an instantaneous flow computed from the single value reported for the day

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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 10APR2023 @ 08:45 ** Preliminary Data - Subject to Revision **

Lake Okeechobee

10APR23 08:37:35



- 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

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[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