

Application of the Lake Okeechobee Regulation Schedule (LORS2008) on 2/5/2024 (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 sub-sampling 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*		SFWMD Empirical Method		Sub-sampling of El Niño ENSO Years**		Sub-sampling of AMO Warm + El Niño ENSO Years***	
	Value (ft)	<u>Condition</u>	Value (ft)	<u>Condition</u>	Value (ft)	<u>Condition</u>	Value (ft)	<u>Condition</u>
Current (Feb-Jul)	N/A	N/A	0.91	Normal	1.55	Wet	1.97	Wet
Multi Seasonal (Feb-Oct)	N/A	N/A	2.66	Wet	3.31	Wet	4.69	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 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:

3623 cfs 14-day running average for Lake Okeechobee Net Inflow through 2/5/2024. According to the classification in Tributary Hydrologic Conditions table, this condition is **Wet**.

0.52 for Palmer Drought Index on 2/3/2024. According to the classification in Tributary Hydrologic Conditions table, this condition is **Near Normal**.

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

LORS2008 Classification Tables:

Lake Okeechobee Stage on 2/5/2024:

Lake Okeechobee Stage: **16.32 feet**

Lake Okeechobee Management Zone/Band		Bottom Elevation (feet, NGVD)	Current Lake Stage
High Lake Management Band		17.25	
Operational Band	High sub-band	16.74	
	Intermediate sub-band	15.97	← 16.32 ft
	Low sub-band	13.62	
Base Flow sub-band		12.60	
Beneficial Use sub-band		11.98	
Water Shortage Management Band			

Part C of LORS2008: Discharge to WCAs

Maximum Practicable to WCAs.

Part D of LORS2008: Discharge to Tide

Up to 4000 cfs at S-77 and up to 1800 cfs at S-80.

LORS2008 Implementation on 2/5/2024 (ENSO Condition- El Niño):**Status for week ending 2/5/2024*:****Water Supply Risk Evaluation**

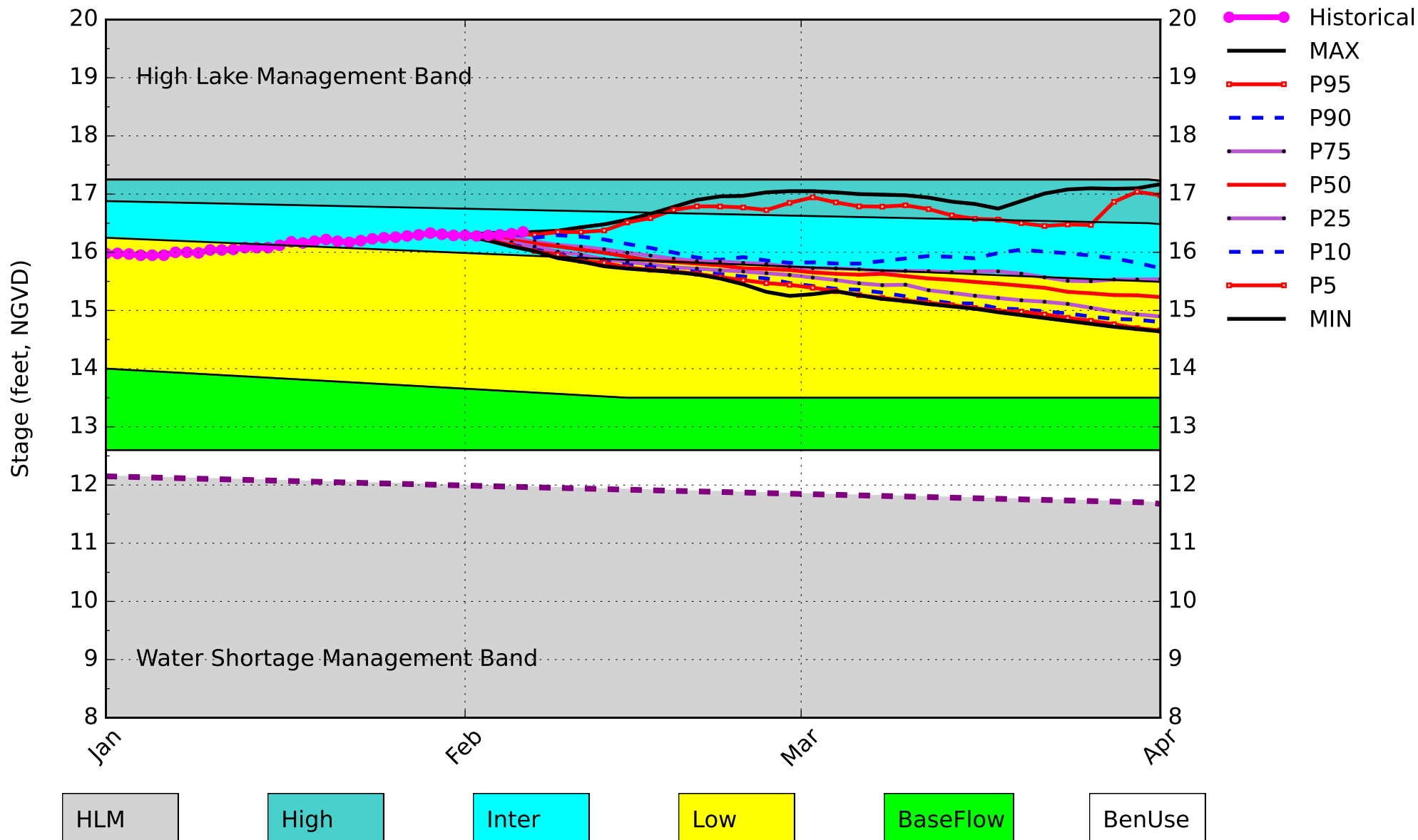
Area	Indicator	Value	Color Coded Scoring Scheme
LOK	Projected LOK Stage for the next two months	Low Sub-band	M
	Palmer Drought Index for LOK Tributary Conditions	0.52 (Normal to Extremely Wet)	L
	CPC Precipitation Outlook	1 month: Above Normal	L
		3 months: Above Normal	L
	LOK Seasonal Net Inflow Outlook	1.55 ft	L
	ENSO Forecast	Normal to Extremely Wet	
	LOK Multi-Seasonal Net Inflow Outlook	3.31 ft	L
	ENSO Forecast	Wet	
WCAs	WCA 1: Site 1-8C	Above Line 1 (16.88 ft)	L
	WCA 2A: Site S11B	Above Line 1 (11.90 ft)	L
	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (10.54 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.

*- S80 flow data for February 2nd – February 4th, 2024, is not available from USACE Daily Reports and was assumed to be 0.

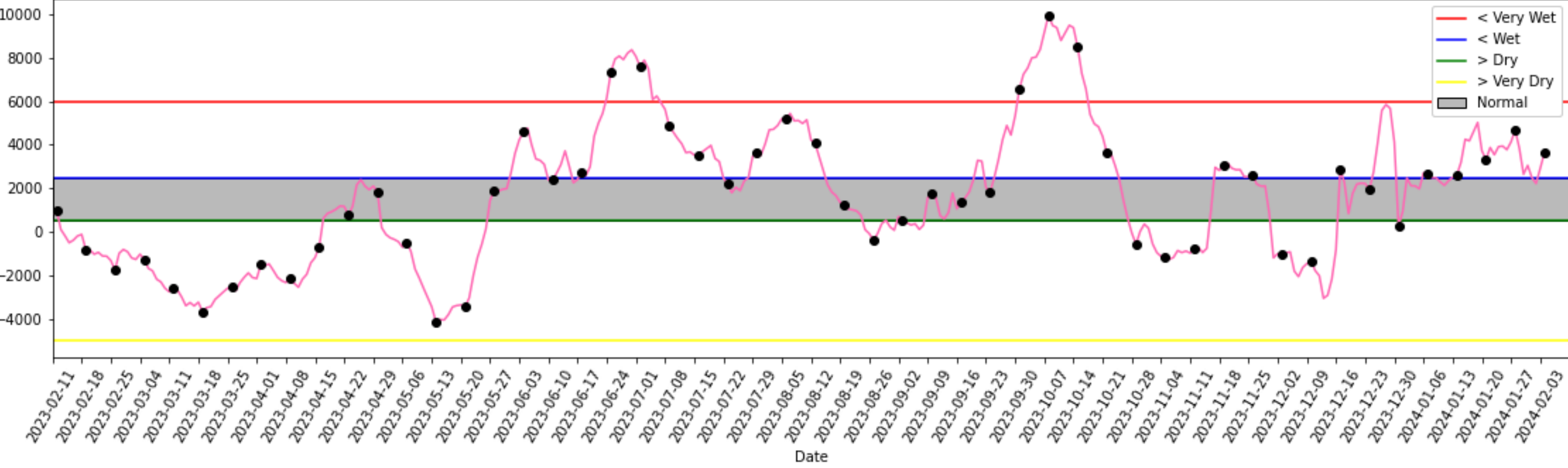
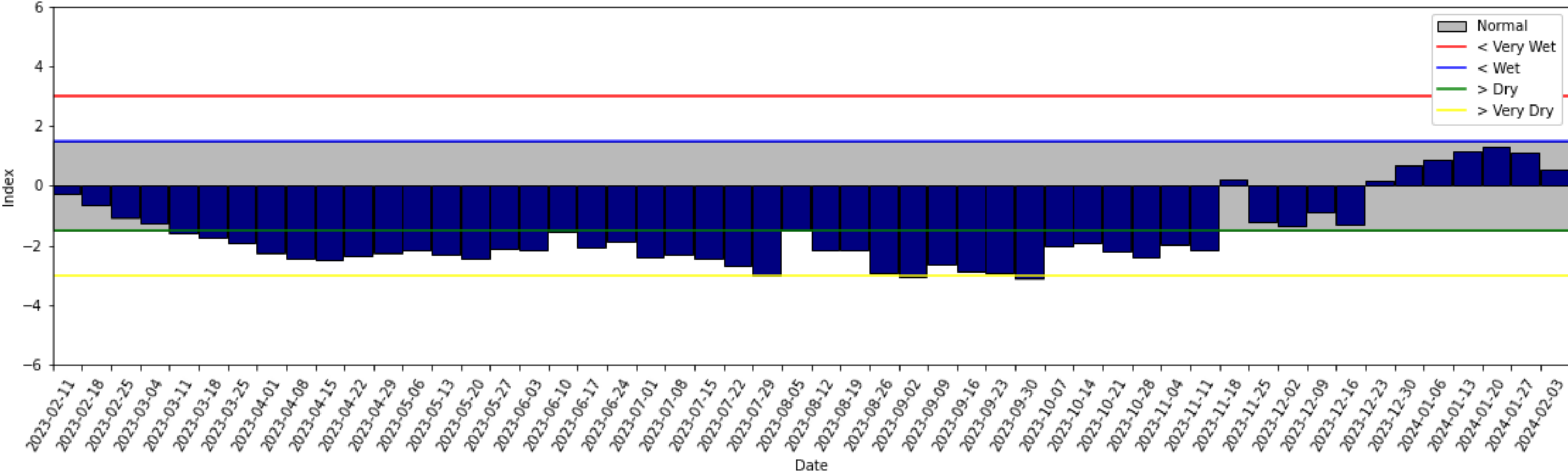
Lake Okeechobee SFWMM February 2024 Position Analysis

Percentiles PA



(See assumptions on the Position Analysis Results website)

Tributary Basin Condition Indicators as of February 04 2024



2008 LORS

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

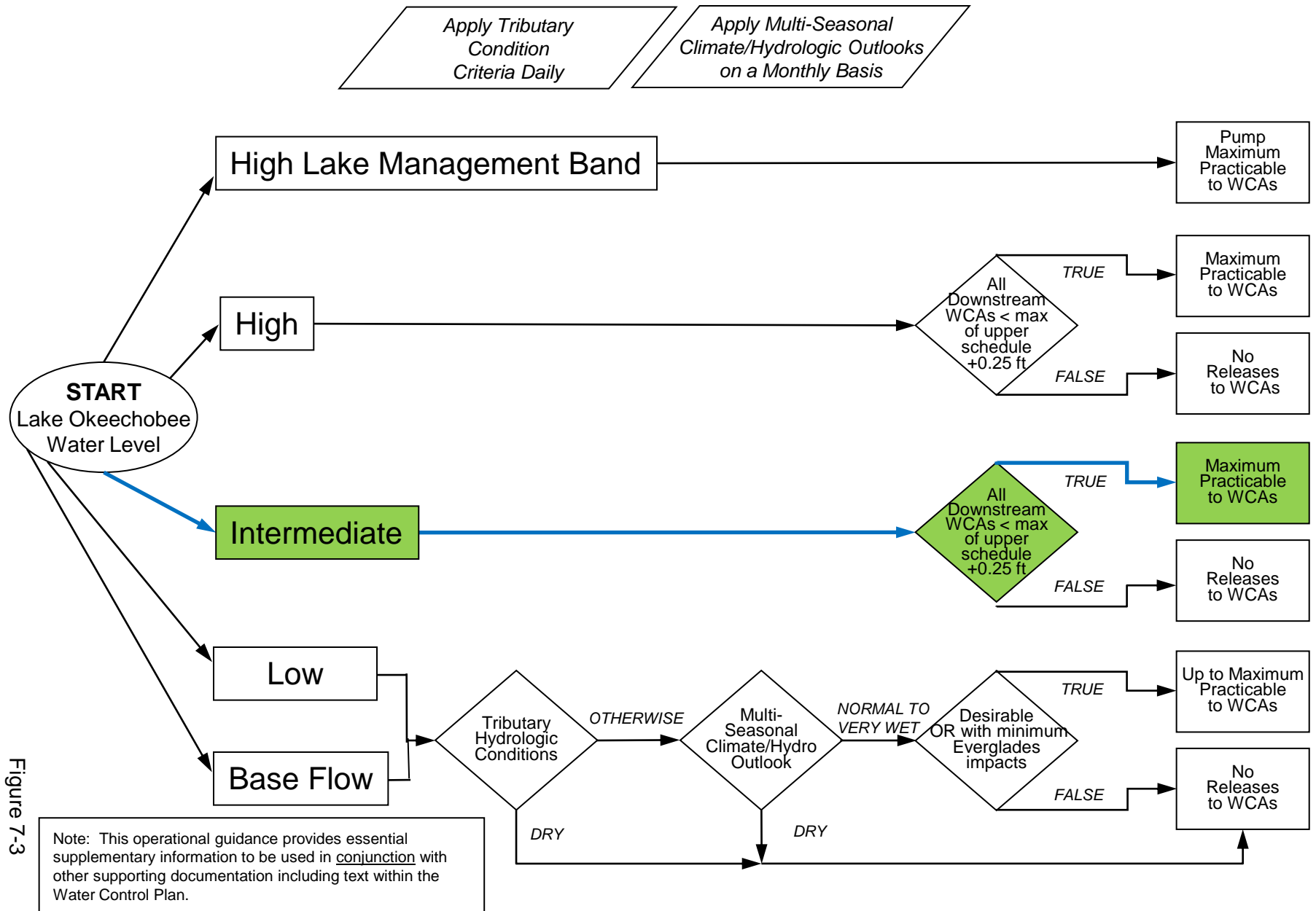


Figure 7-3

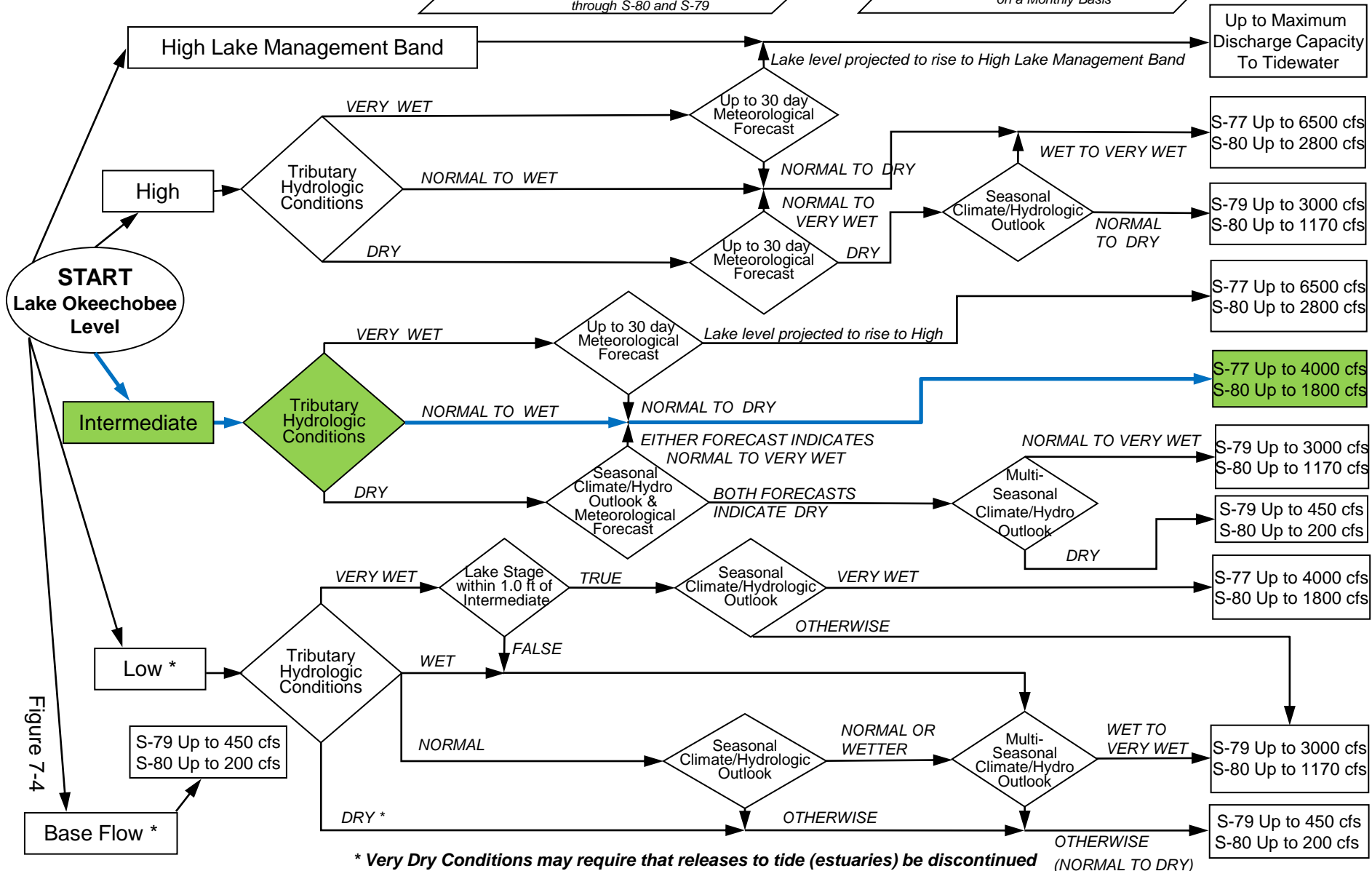
2008 LORS

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

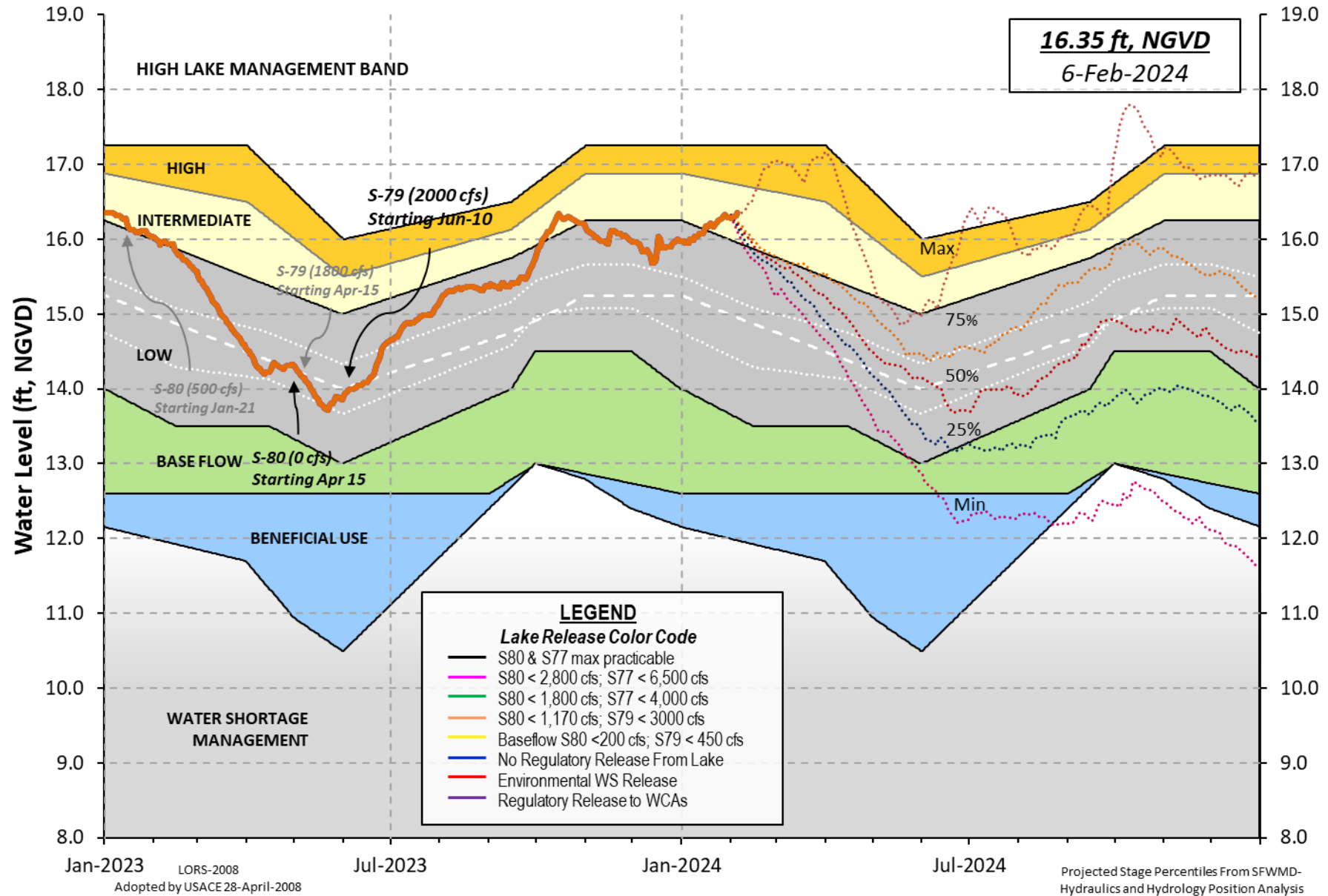
Note: This operational guidance provides essential supplementary information to be used in conjunction with other supporting documentation including text within the Water Control Plan.

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



Lake Okeechobee Water Level History and Projected Stages



U. S. Army Corps of Engineers, Jacksonville District
Lake Okeechobee and Vicinity Report

** Preliminary Data - Subject to Revision **

Data Ending 2400 hours 04 FEB 2024

Okeechobee Lake Regulation	Elevation (ft-NGVD)	Last Year (ft-NGVD)	2YRS Ago (ft-NGVD)
*Okeechobee Lake Elevation	16.32	15.92	14.91 (Official Elv)
Bottom of High Lake Mngmt=	17.25	Top of Water Short Mngmt=	11.98
Currently in Operational Management Band			

Simulated Average LORS2008 [1965-2000]	13.48
Difference from Average LORS2008	2.84

04FEB (1965-2007) Period of Record Average	14.63
Difference from POR Average	1.69

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

++Navigation Depth (Based on 2007 Channel Condition Survey) Route 1 \blacklozenge 10.26'
 ++Navigation Depth (Based on 2008 Channel Condition Survey) Route 2 \blacklozenge 8.46'
 Bridge Clearance = 49.46'

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

L001	L005	L006	LZ40	S4	S352	S308	S133
16.36	16.36	16.26	16.27	16.25	16.38	16.36	16.28

*Combination Okeechobee Avg-Daily Lake Average = 16.32
 (*See Note)

Okeechobee Inflows (cfs):

S65E	3087	S65EX1	0	Fisheating Cr	139
S154	0	S191	6	S135 Pumps	0
S84	0	S133 Pumps	0	S2 Pumps	0
S84X	8	S127 Pumps	0	S3 Pumps	0
S71	181	S129 Pumps	0	S4 Pumps	0
S72	271	S131 Pumps	0	C5	0
Total Inflows:	3692				

Okeechobee Outflows (cfs):

S135 Culverts	0	S354	0	S77	971
S127 Culverts	0	S351	0	S308	3
S129 Culverts	0	S352	26		
S131 Culverts	0	L8 Canal Pt	100		
Total Outflows:	1099				

****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):

S77	0.10	S308	0.06
Average Pan Evap x 0.75 Pan Coefficient = 0.06" = 0.00'			

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

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

Evaporation - Precipitation using Lake Area of 730 square miles

is equal to -NR-
 Lake Okeechobee (Change in Storage) Flow is 4538 cfs or 9000 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:	13.56	16.24	0	0	0	0	0	0	0	0	(cfs)
S193:											
S191:	19.07	16.25	6	0.0	0.5	0.0					
S135 Pumps:	13.31	16.23	0	0	0	0	0				(cfs)
S135 Culverts:			0	0.0	0.0						
North West Shore											
S65E:	21.02	15.82	3087	1.3	1.8	1.8	1.1	1.8	1.1		
S65EX1:	21.02	15.82	0								
S127 Pumps:	13.52	16.25	0	0	0	0	0	0			(cfs)
S127 Culvert:			0	0.0							
S129 Pumps:	12.97	16.26	0	0	0	0					(cfs)
S129 Culvert:			0	0.0							
S131 Pumps:	12.98	13.30	0	0	0						(cfs)
S131 Culvert:			0								
Fisheating Creek											
nr Palmdale		31.22	139								
nr Lakeport											
S282	16.11	16.07		0.0	0.0	0.1					
South Shore											
S4 Pumps:	11.34	-NR-	0	0	0	0					(cfs)
S169:		-NR-	-NR-	-NR-	-NR-	-NR-					
S310:	16.36		4								
S3 Pumps:	10.07	16.35	0	0	0	0					(cfs)
S354:	16.35	10.07	0	0.0	0.0						
S2 Pumps:	9.71	16.36	0	0	0	0	0				(cfs)
S351:	16.36	9.71	0	0.0	0.0	0.0					
S352:	16.47	9.48	26	0.1	0.0						
S271:	16.62	14.99		0.0	0.0	0.0	0.0				
L8 Canal PT		14.69	100								

S351 and S352 Temporary Pumps/S354 Spillway

S351:	9.71	16.36	0	-NR-	-NR-	-NR-	-NR-	-NR-	-NR-
S352:	9.48	16.47	26	-NR-	-NR-	-NR-	-NR-	-NR-	-NR-
S354:	10.07	16.35	0	-NR-	-NR-	-NR-	-NR-	-NR-	-NR-

Caloosahatchee River (S77, S78, S79)

S47B:	13.10	11.82		0.0	0.0
S47D:	11.89	11.12	0	0.0	
S77:					
Spillway and Sector Preferred Flow:					
	16.08	10.94	967	0.5	2.5 0.5 0.0
Flow Due to Lockages+:			4		

S78:

Spillway and Sector Flow:

10.99	3.13	994	1.0	0.0	2.5	0.0
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Flow Due to Lockages+:	3
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S79:

Spillway and Sector Flow:

3.29	2.37	1681	0.0	0.0	2.0	2.0	2.0	2.0	1.0	0.0
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Flow Due to Lockages+:	3
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Percent of flow from S77	58%
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Chloride	(ppm)	0
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St. Lucie Canal (S308, S80)

S308:

Spillway and Sector Preferred Flow:

16.33	14.04	0	0.0	0.0	0.0	0.0
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Flow Due to Lockages+:	3
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S153:	19.02	13.86	0	0.0	0.0
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S80:

Spillway and Sector Flow:

14.17	0.33	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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Flow Due to Lockages+:	-NR-
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Percent of flow from S308	NA %
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Steele Point Top Salinity	(mg/ml)	****
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Steele Point Bottom Salinity	(mg/ml)	****
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Speedy Point Top Salinity	(mg/ml)	****
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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

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:	0.15	0.15	0.15	236	2
S78:	0.00	0.00	0.00	239	2
S79:	0.34	0.34	0.34	119	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:	0.00	0.00	0.00	287	12
S80:	0.36	0.36	0.36	-NR-	-NR-
Okeechobee Average (Sites S78, S79 and S80 not included)	0.07	0.01	0.01		

Oke Nexrad Basin Avg	-NR-	0.00	0.00		

Okeechobee Lake Elevations	04 FEB 2024	16.32	Difference from 04FEB24
04FEB24 -1 Day =	03 FEB 2024	16.30	-0.02

04FEB24	-2 Days =	02 FEB 2024	16.29	-0.03
04FEB24	-3 Days =	01 FEB 2024	16.28	-0.04
04FEB24	-4 Days =	31 JAN 2024	16.29	-0.03
04FEB24	-5 Days =	30 JAN 2024	16.29	-0.03
04FEB24	-6 Days =	29 JAN 2024	16.31	-0.01
04FEB24	-7 Days =	28 JAN 2024	16.33	0.01
04FEB24	-30 Days =	05 JAN 2024	15.95	-0.37
04FEB24	-1 Year =	04 FEB 2023	15.92	-0.40
04FEB24	-2 Year =	04 FEB 2022	14.91	-1.41

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
04FEB24	Today =	04 FEB 2024	3629 MON	5530
04FEB24	-1 Day =	03 FEB 2024	2912 SUN	2849
04FEB24	-2 Days =	02 FEB 2024	2224 SAT	2976
04FEB24	-3 Days =	01 FEB 2024	2500 FRI	-726
04FEB24	-4 Days =	31 JAN 2024	3057 THU	1752
04FEB24	-5 Days =	30 JAN 2024	2653 WED	-2296
04FEB24	-6 Days =	29 JAN 2024	3839 TUE	-2210
04FEB24	-7 Days =	28 JAN 2024	4684 MON	8180
04FEB24	-8 Days =	27 JAN 2024	4132 SUN	5659
04FEB24	-9 Days =	26 JAN 2024	4262 SAT	5452
04FEB24	-10 Days =	25 JAN 2024	4589 FRI	3361
04FEB24	-11 Days =	24 JAN 2024	3916 THU	5892
04FEB24	-12 Days =	23 JAN 2024	3544 WED	7561
04FEB24	-13 Days =	22 JAN 2024	3876 TUE	6832

S65E				
Average Flow over previous 14 days				Avg-Daily Flow
04FEB24	Today=	04 FEB 2024	2857 MON	3273
04FEB24	-1 Day =	03 FEB 2024	2733 SUN	3279
04FEB24	-2 Days =	02 FEB 2024	2611 SAT	3371
04FEB24	-3 Days =	01 FEB 2024	2480 FRI	3449
04FEB24	-4 Days =	31 JAN 2024	2341 THU	3472
04FEB24	-5 Days =	30 JAN 2024	2201 WED	3370
04FEB24	-6 Days =	29 JAN 2024	2067 TUE	3152
04FEB24	-7 Days =	28 JAN 2024	1939 MON	3108
04FEB24	-8 Days =	27 JAN 2024	1810 SUN	2844
04FEB24	-9 Days =	26 JAN 2024	1700 SAT	2590
04FEB24	-10 Days =	25 JAN 2024	1604 FRI	2421
04FEB24	-11 Days =	24 JAN 2024	1512 THU	2117
04FEB24	-12 Days =	23 JAN 2024	1435 WED	1795
04FEB24	-13 Days =	22 JAN 2024	1377 TUE	1763

S65EX1				
Average Flow over previous 14 days				Avg-Daily Flow
04FEB24	Today=	04 FEB 2024	0 MON	0
04FEB24	-1 Day =	03 FEB 2024	0 SUN	0
04FEB24	-2 Days =	02 FEB 2024	0 SAT	0
04FEB24	-3 Days =	01 FEB 2024	0 FRI	0
04FEB24	-4 Days =	31 JAN 2024	0 THU	0
04FEB24	-5 Days =	30 JAN 2024	0 WED	0
04FEB24	-6 Days =	29 JAN 2024	0 TUE	0
04FEB24	-7 Days =	28 JAN 2024	0 MON	0
04FEB24	-8 Days =	27 JAN 2024	0 SUN	0
04FEB24	-9 Days =	26 JAN 2024	0 SAT	0
04FEB24	-10 Days =	25 JAN 2024	0 FRI	0
04FEB24	-11 Days =	24 JAN 2024	0 THU	0
04FEB24	-12 Days =	23 JAN 2024	0 WED	0
04FEB24	-13 Days =	22 JAN 2024	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)
04 FEB 2024	1164	1917	1984	3376
03 FEB 2024	555	1014	1185	2917
02 FEB 2024	704	1168	1212	2437
01 FEB 2024	2498	2787	1791	3233
31 JAN 2024	2878	3211	2570	4052
30 JAN 2024	3921	4087	3341	5073
29 JAN 2024	3677	3775	3304	5125
28 JAN 2024	1597	1977	2015	4474
27 JAN 2024	539	1396	1193	3314
26 JAN 2024	183	961	807	2887
25 JAN 2024	532	1346	806	3384
24 JAN 2024	1056	1828	1499	4184
23 JAN 2024	635	1450	1369	4793
22 JAN 2024	6	591	1140	5116

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)
04 FEB 2024	7	0	51	0	197
03 FEB 2024	4	0	49	89	178
02 FEB 2024	0	0	49	185	176
01 FEB 2024	2	0	49	224	179
31 JAN 2024	8	0	49	214	185
30 JAN 2024	4	0	49	310	189
29 JAN 2024	15	791	49	0	192
28 JAN 2024	10	0	48	698	194
27 JAN 2024	2	0	46	782	188
26 JAN 2024	-0	0	46	805	195
25 JAN 2024	2	0	46	773	204
24 JAN 2024	11	0	46	811	194
23 JAN 2024	-4	0	46	0	192
22 JAN 2024	2	0	48	0	206

DATE	S-308 Discharge (ALL DAY) (AC-FT)	Below S-308 Discharge (ALL-DAY) (AC-FT)	S-80 Discharge (ALL-DAY) (AC-FT)
04 FEB 2024	6	-NR-	-NR-
03 FEB 2024	14	-NR-	-NR-
02 FEB 2024	7	-NR-	-NR-
01 FEB 2024	11	-NR-	32
31 JAN 2024	13	-NR-	45
30 JAN 2024	13	-NR-	42
29 JAN 2024	7	-NR-	23
28 JAN 2024	6	-NR-	20
27 JAN 2024	14	-NR-	36
26 JAN 2024	11	-NR-	47
25 JAN 2024	8	-NR-	31
24 JAN 2024	7	-NR-	39
23 JAN 2024	6	-NR-	30
22 JAN 2024	10	-NR-	27

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

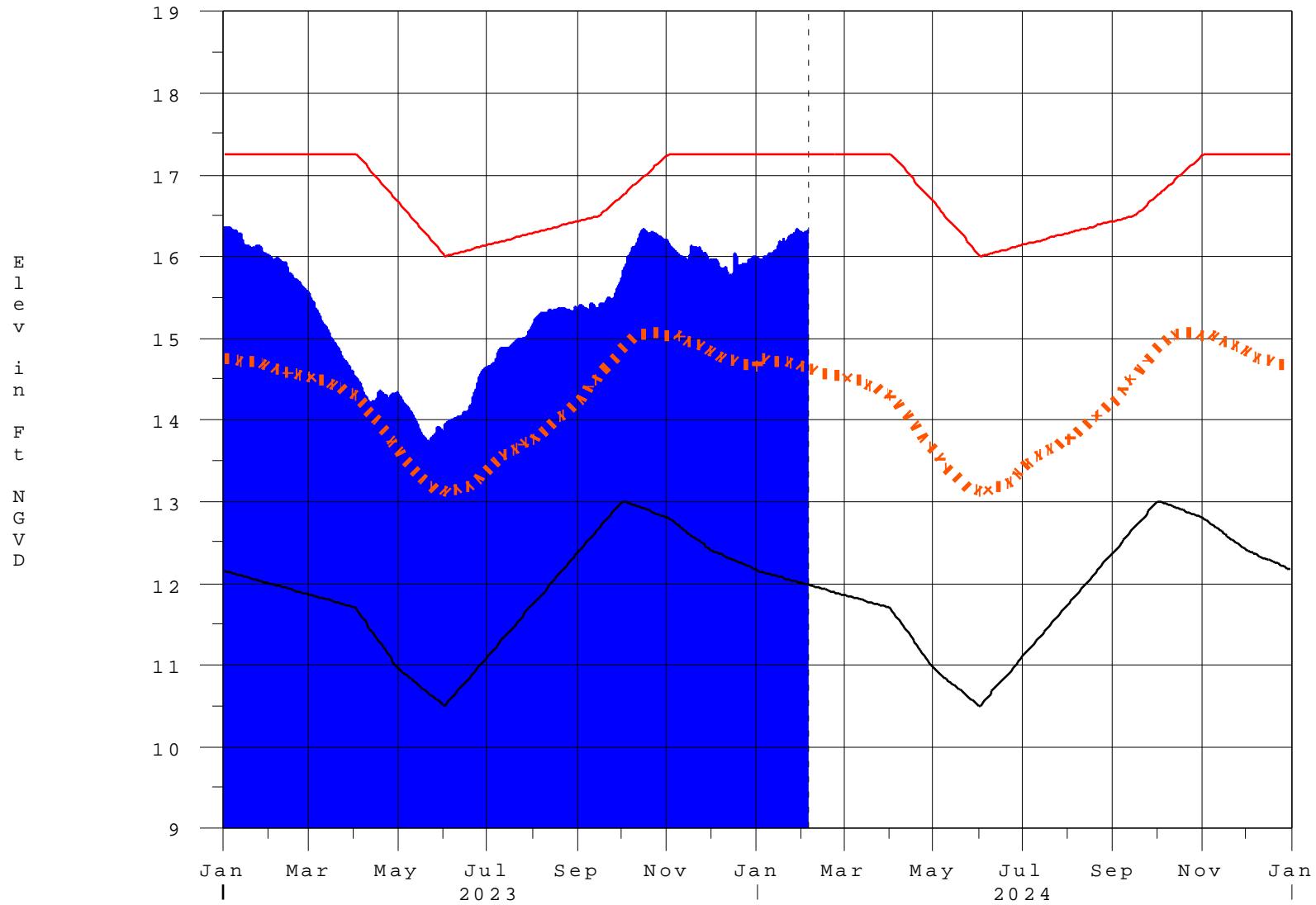
(I) - Flows preceded by "I" signify an instantaneous flow computed from the single value reported for the day

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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 05FEB2024 @ 14:15 ** Preliminary Data - Subject to Revision **

Lake Okeechobee

05FEB24 14:00:15



- 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**