

Application of the Lake Okeechobee Regulation Schedule (LORS2008) on 1/8/2024 (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 (Jan-Jun)	N/A	N/A	0.76	Normal	1.53	Wet	1.85	Wet
Multi Seasonal (Jan-Oct)	N/A	N/A	2.97	Wet	3.84	Wet	5.11	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:

2664 cfs 14-day running average for Lake Okeechobee Net Inflow through 1/8/2024. According to the classification in Tributary Hydrologic Conditions table, this condition is Wet.

0.86 for Palmer Drought Index on 1/6/2024. 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 1/8/2024:

Lake Okeechobee Stage: **16.00 feet**

Lake Okeechobee Management Zone/Band		Bottom Elevation (feet, NGVD)	Current Lake Stage
High Lake Management Band		17.25	
Operational Band	High sub-band	16.85	
	Intermediate sub-band	16.20	
	Low sub-band	13.93	← 16.00 ft
Base Flow sub-band		12.60	
Beneficial Use sub-band		12.12	
Water Shortage Management 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 1/8/2024 (ENSO Condition- El Niño):

Status for week ending 1/8/2024*:

Water Supply Risk Evaluation

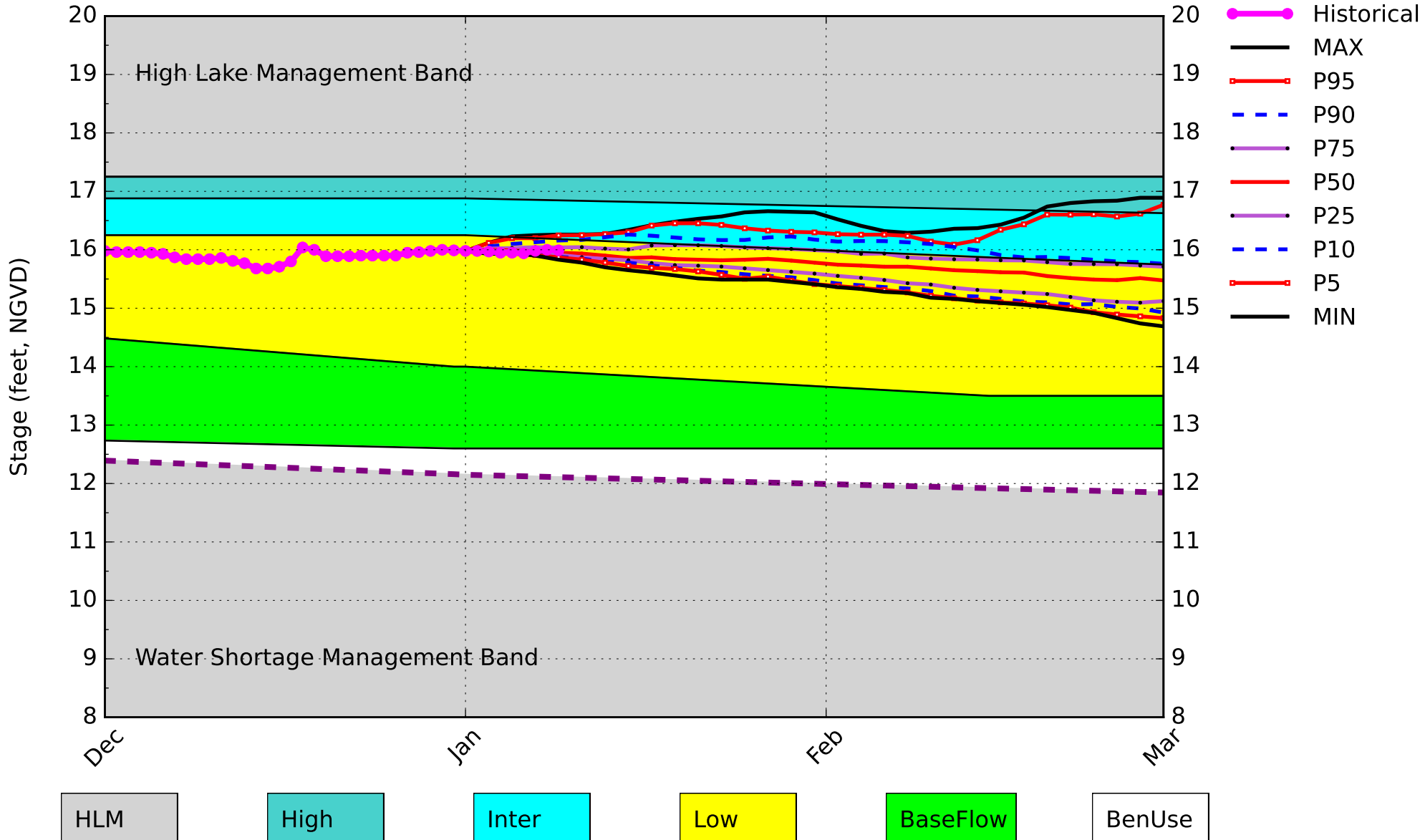
Area	Indicator	Value	Color Coded Scoring Scheme
LOK	Projected LOK Stage for the next two months	Low Sub-band	M
	Palmer Drought Index for LOK Tributary Conditions	0.86 (Normal to Extremely Wet)	L
	CPC Precipitation Outlook	1 month: Above Normal	L
		3 months: Above Normal	L
	LOK Seasonal Net Inflow Outlook	1.53 ft	L
	ENSO Forecast	Normal to Extremely Wet	
	LOK Multi-Seasonal Net Inflow Outlook	3.84 ft	L
	ENSO Forecast	Wet	
WCAs	WCA 1: Site 1-8C	Above Line 1 (17.47 ft)	L
	WCA 2A: Site 2-17	Above Line 1 (12.51 ft)	L
	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (10.67 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 January 3rd and 4th 2023, is not available from USACE Daily Reports and was assumed to be 0.

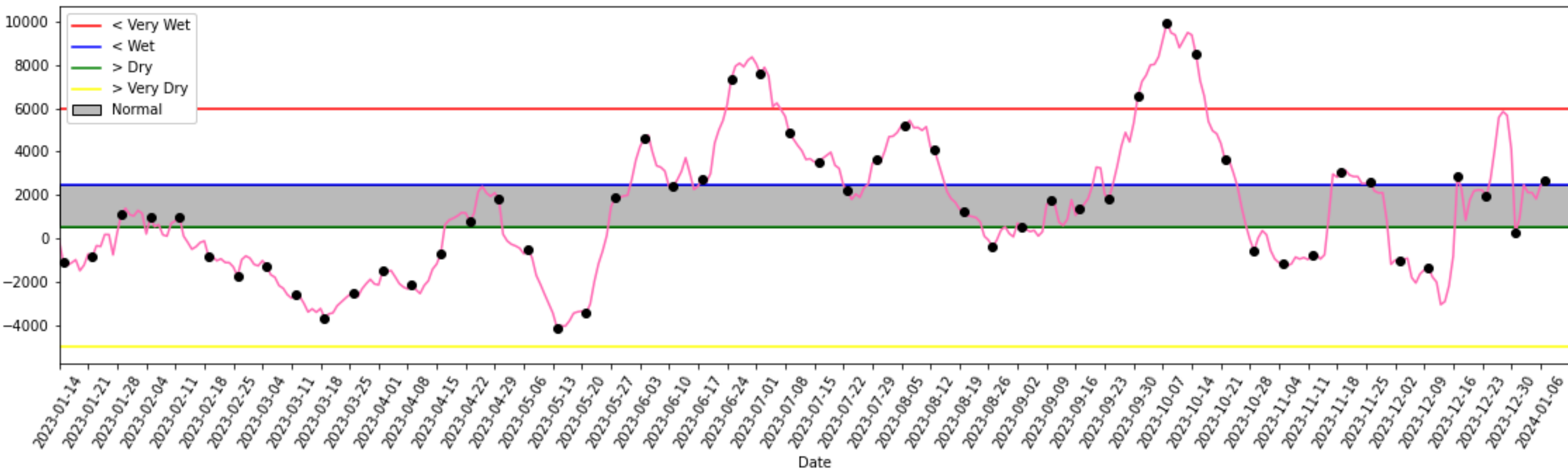
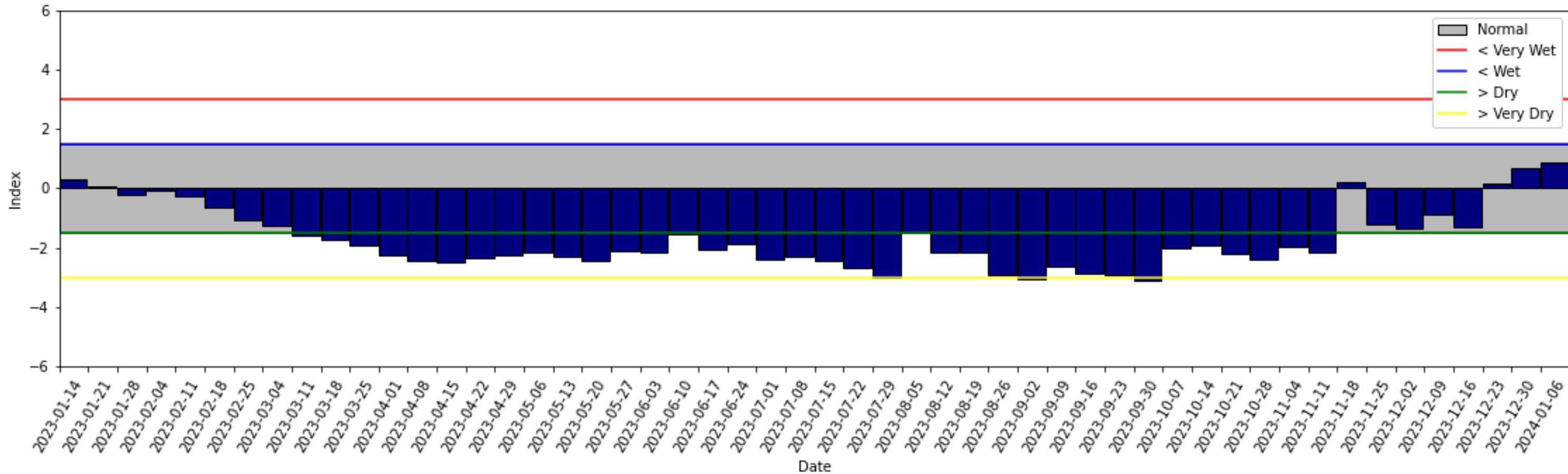
Lake Okeechobee SFWMM January 2024 Position Analysis

Percentiles PA



(See assumptions on the Position Analysis Results website)

Tributary Basin Condition Indicators as of January 07 2024



2008 LORS

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

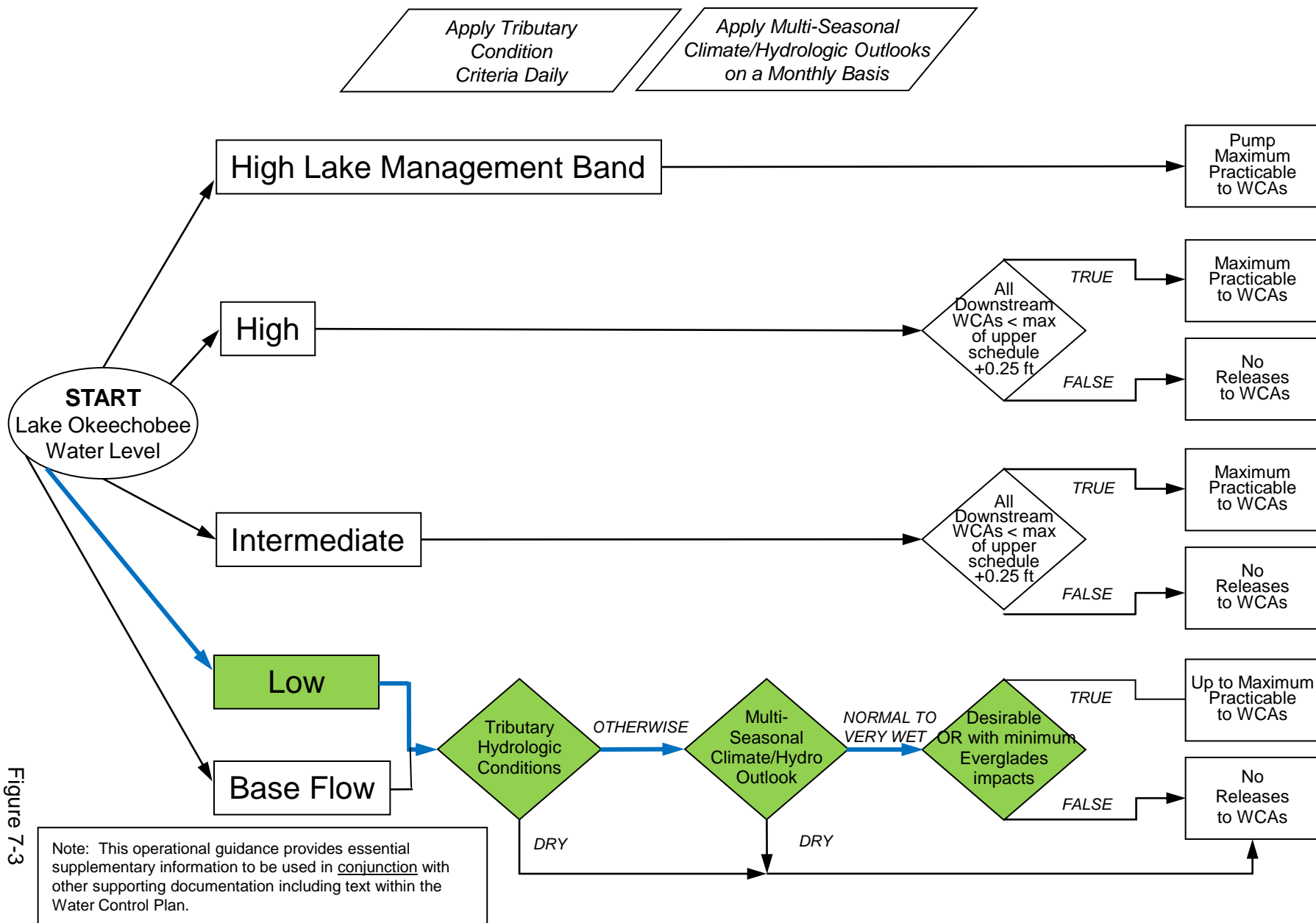


Figure 7-3

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

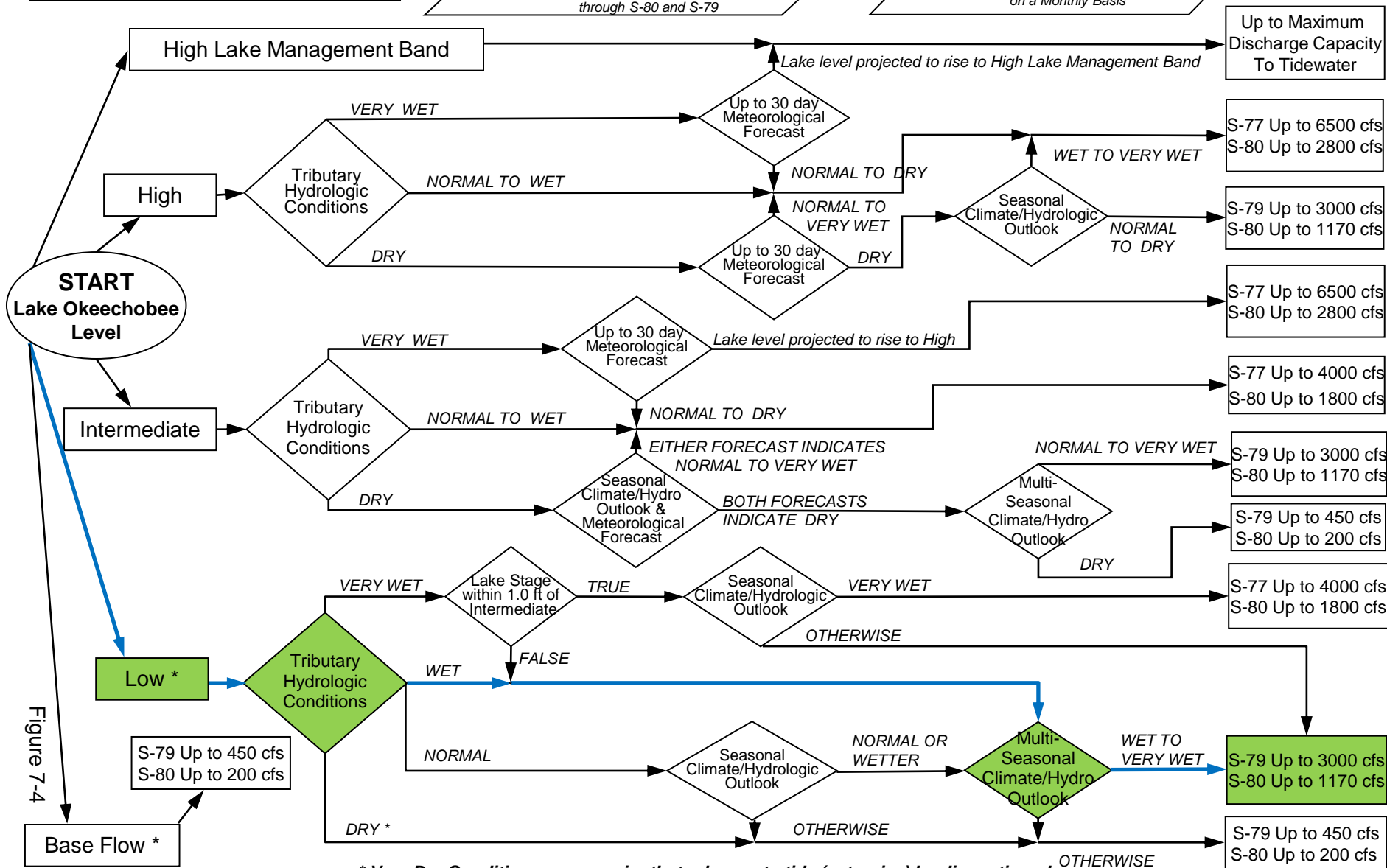
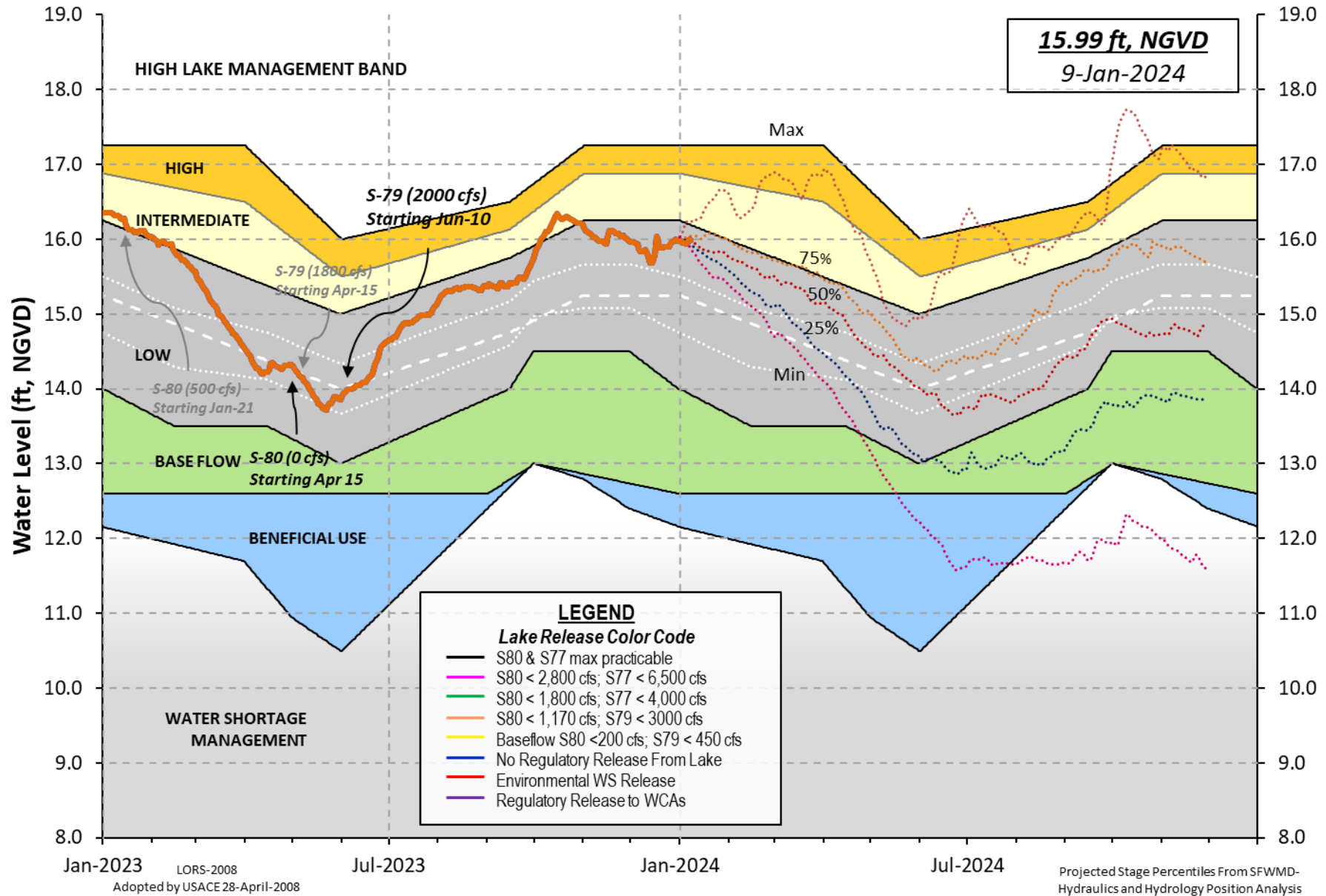


Figure 7-4

* Very Dry Conditions may require that releases to tide (estuaries) be discontinued (NORMAL TO DRY)

Lake Okeechobee Water Level History and Projected Stages



is equal to -NR-
 Lake Okeechobee (Change in Storage) Flow is 4336 cfs or 8600 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:	13.52	15.76	0	0	0	0	0	0	0	0	(cfs)
S193:											
S191:	19.15	15.76	0	0.0	0.0	0.0					
S135 Pumps:	13.41	15.73	0	0	0	0	0				(cfs)
S135 Culverts:			0	0.0	0.0						
North West Shore											
S65E:	21.03	15.49	881	0.8	0.5	0.4	0.4	0.4	0.1		
S65EX1:	21.03	15.49	0								
S127 Pumps:	13.51	15.88	0	0	0	0	0	0			(cfs)
S127 Culvert:			0	0.0							
S129 Pumps:	13.19	15.96	0	0	0	0					(cfs)
S129 Culvert:			0	0.0							
S131 Pumps:	13.14	-NR-	0	0	0						(cfs)
S131 Culvert:			0								
Fisheating Creek											
nr Palmdale		31.65	197								
nr Lakeport											
S282	15.95	15.91		0.0	0.0	0.1					
South Shore											
S4 Pumps:	11.30	-NR-	0	0	0	0					(cfs)
S169:		-NR-	-NR-	-NR-	-NR-	-NR-					
S310:	16.03		7								
S3 Pumps:	10.19	16.24	0	0	0	0					(cfs)
S354:	16.24	10.19	0	0.0	0.0						
S2 Pumps:	10.22	16.18	0	0	0	0	0				(cfs)
S351:	16.18	10.22	0	0.0	0.0	0.0					
S352:	16.06	9.57	26	0.1	0.0						
S271:	16.24	14.94		0.0	0.0	0.0	-NR-				
L8 Canal PT		14.63	103								

S351 and S352 Temporary Pumps/S354 Spillway

S351:	10.22	16.18	0	-NR-	-NR-	-NR-	-NR-	-NR-	-NR-		
S352:	9.57	16.06	26	-NR-	-NR-	-NR-	-NR-				
S354:	10.19	16.24	0	-NR-	-NR-	-NR-	-NR-				

Caloosahatchee River (S77, S78, S79)

S47B:	13.44	11.08		0.5	1.0						
S47D:	11.12	11.11	28	5.0							
S77:											
Spillway and Sector Preferred Flow:	15.84	10.96	913	0.0	0.5	3.0	0.0				
Flow Due to Lockages+:			8								

S78:

Spillway and Sector Flow:
 10.99 2.98 1422 2.0 0.0 3.0 0.0
 Flow Due to Lockages+: 10

S79:
 Spillway and Sector Flow:
 3.14 1.69 2825 0.0 0.0 2.0 2.0 3.0 2.0 0.0 0.0
 Flow Due to Lockages+: 8
 Percent of flow from S77 32%
 Chloride (ppm) 0

St. Lucie Canal (S308, S80)

S308:
 Spillway and Sector Preferred Flow:
 16.03 14.01 0 0.0 0.0 0.0 0.0
 Flow Due to Lockages+: 6

S153: 18.64 13.81 48 0.0 0.0

S80:
 Spillway and Sector Flow:
 14.05 0.26 0 0.0 0.0 0.0 0.0 0.0 0.0 0.0
 Flow Due to Lockages+: 23
 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) ****

+ 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:	0.00	0.54	0.54	178	2
S78:	3.39	3.40	3.41	95	-NR-
S79:	4.99	7.24	7.24	17	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	340	1
S80:	0.13	0.26	0.26	18	2
Okeechobee Average (Sites S78, S79 and S80 not included)	0.00	0.04	0.04		

Oke Nexrad Basin Avg	-NR-	0.00	0.00		

Okeechobee Lake Elevations 07 JAN 2024 16.00 Difference from 07JAN24
 07JAN24 -1 Day = 06 JAN 2024 15.98 -0.02

07JAN24	-2 Days =	05 JAN 2024	15.94	-0.06
07JAN24	-3 Days =	04 JAN 2024	15.95	-0.05
07JAN24	-4 Days =	03 JAN 2024	15.95	-0.05
07JAN24	-5 Days =	02 JAN 2024	15.97	-0.03
07JAN24	-6 Days =	01 JAN 2024	15.98	-0.02
07JAN24	-7 Days =	31 DEC 2023	15.98	-0.02
07JAN24	-30 Days =	08 DEC 2023	15.84	-0.16
07JAN24	-1 Year =	07 JAN 2023	16.32	0.32
07JAN24	-2 Year =	07 JAN 2022	15.37	-0.63

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
07JAN24	Today =	07 JAN 2024	2670 MON	5274
07JAN24	-1 Day =	06 JAN 2024	2406 SUN	9253
07JAN24	-2 Days =	05 JAN 2024	1827 SAT	-1324
07JAN24	-3 Days =	04 JAN 2024	2114 FRI	1222
07JAN24	-4 Days =	03 JAN 2024	2123 THU	-2870
07JAN24	-5 Days =	02 JAN 2024	2507 WED	-431
07JAN24	-6 Days =	01 JAN 2024	2752 TUE	1368
07JAN24	-7 Days =	31 DEC 2023	1975 MON	-928
07JAN24	-8 Days =	30 DEC 2023	6477 SUN	-1619
07JAN24	-9 Days =	29 DEC 2023	8283 SAT	4883
07JAN24	-10 Days =	28 DEC 2023	8489 FRI	5204
07JAN24	-11 Days =	27 DEC 2023	6550 THU	3257
07JAN24	-12 Days =	26 DEC 2023	6622 WED	12206
07JAN24	-13 Days =	25 DEC 2023	4862 TUE	1892

S65E

		Average Flow over previous 14 days		Avg-Daily Flow
07JAN24	Today=	07 JAN 2024	1008 MON	988
07JAN24	-1 Day =	06 JAN 2024	1003 SUN	1002
07JAN24	-2 Days =	05 JAN 2024	994 SAT	968
07JAN24	-3 Days =	04 JAN 2024	986 FRI	987
07JAN24	-4 Days =	03 JAN 2024	978 THU	991
07JAN24	-5 Days =	02 JAN 2024	969 WED	1008
07JAN24	-6 Days =	01 JAN 2024	959 TUE	998
07JAN24	-7 Days =	31 DEC 2023	958 MON	1008
07JAN24	-8 Days =	30 DEC 2023	962 SUN	1026
07JAN24	-9 Days =	29 DEC 2023	953 SAT	1049
07JAN24	-10 Days =	28 DEC 2023	942 FRI	1057
07JAN24	-11 Days =	27 DEC 2023	926 THU	999
07JAN24	-12 Days =	26 DEC 2023	916 WED	1126
07JAN24	-13 Days =	25 DEC 2023	900 TUE	906

S65EX1

		Average Flow over previous 14 days		Avg-Daily Flow
07JAN24	Today=	07 JAN 2024	0 MON	0
07JAN24	-1 Day =	06 JAN 2024	0 SUN	0
07JAN24	-2 Days =	05 JAN 2024	0 SAT	0
07JAN24	-3 Days =	04 JAN 2024	0 FRI	0
07JAN24	-4 Days =	03 JAN 2024	0 THU	0
07JAN24	-5 Days =	02 JAN 2024	0 WED	0
07JAN24	-6 Days =	01 JAN 2024	0 TUE	0
07JAN24	-7 Days =	31 DEC 2023	0 MON	0
07JAN24	-8 Days =	30 DEC 2023	0 SUN	0
07JAN24	-9 Days =	29 DEC 2023	0 SAT	0
07JAN24	-10 Days =	28 DEC 2023	0 FRI	0
07JAN24	-11 Days =	27 DEC 2023	0 THU	0
07JAN24	-12 Days =	26 DEC 2023	0 WED	0
07JAN24	-13 Days =	25 DEC 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)
07 JAN 2024	1367	1811	2847	5656
06 JAN 2024	434	1102	1764	3978
05 JAN 2024	1146	1613	1634	2981
04 JAN 2024	2047	2377	2215	3447
03 JAN 2024	2580	2862	2977	4066
02 JAN 2024	-NR-	2838	3239	4813
01 JAN 2024	-NR-	2665	3159	5049
31 DEC 2023	-NR-	2409	2723	4786
30 DEC 2023	-NR-	1037	1731	3419
29 DEC 2023	-NR-	1035	1450	2814
28 DEC 2023	-NR-	1675	2153	3565
27 DEC 2023	-NR-	2117	2326	3661
26 DEC 2023	-NR-	2665	2665	5024
25 DEC 2023	-NR-	3706	3389	4318

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)
07 JAN 2024	13	0	51	0	205
06 JAN 2024	9	0	50	0	199
05 JAN 2024	-8	0	50	0	205
04 JAN 2024	0	0	47	0	201
03 JAN 2024	4	0	45	0	201
02 JAN 2024	3	0	47	0	190
01 JAN 2024	1	0	48	0	194
31 DEC 2023	5	0	49	0	204
30 DEC 2023	16	0	51	0	199
29 DEC 2023	13	0	50	0	194
28 DEC 2023	12	0	47	0	209
27 DEC 2023	12	0	43	0	195
26 DEC 2023	5	0	44	0	205
25 DEC 2023	13	0	46	0	197

DATE	S-308 Discharge (ALL DAY) (AC-FT)	Below S-308 Discharge (ALL-DAY) (AC-FT)	S-80 Discharge (ALL-DAY) (AC-FT)
07 JAN 2024	12	-NR-	46
06 JAN 2024	5	-NR-	15
05 JAN 2024	10	-NR-	37
04 JAN 2024	7	-NR-	-NR-
03 JAN 2024	9	-NR-	-NR-
02 JAN 2024	531	-NR-	41
01 JAN 2024	7	-NR-	23
31 DEC 2023	3	-NR-	27
30 DEC 2023	6	-NR-	23
29 DEC 2023	12	-NR-	49
28 DEC 2023	6	-NR-	30
27 DEC 2023	5	-NR-	30
26 DEC 2023	5	-NR-	23
25 DEC 2023	4	-NR-	22

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

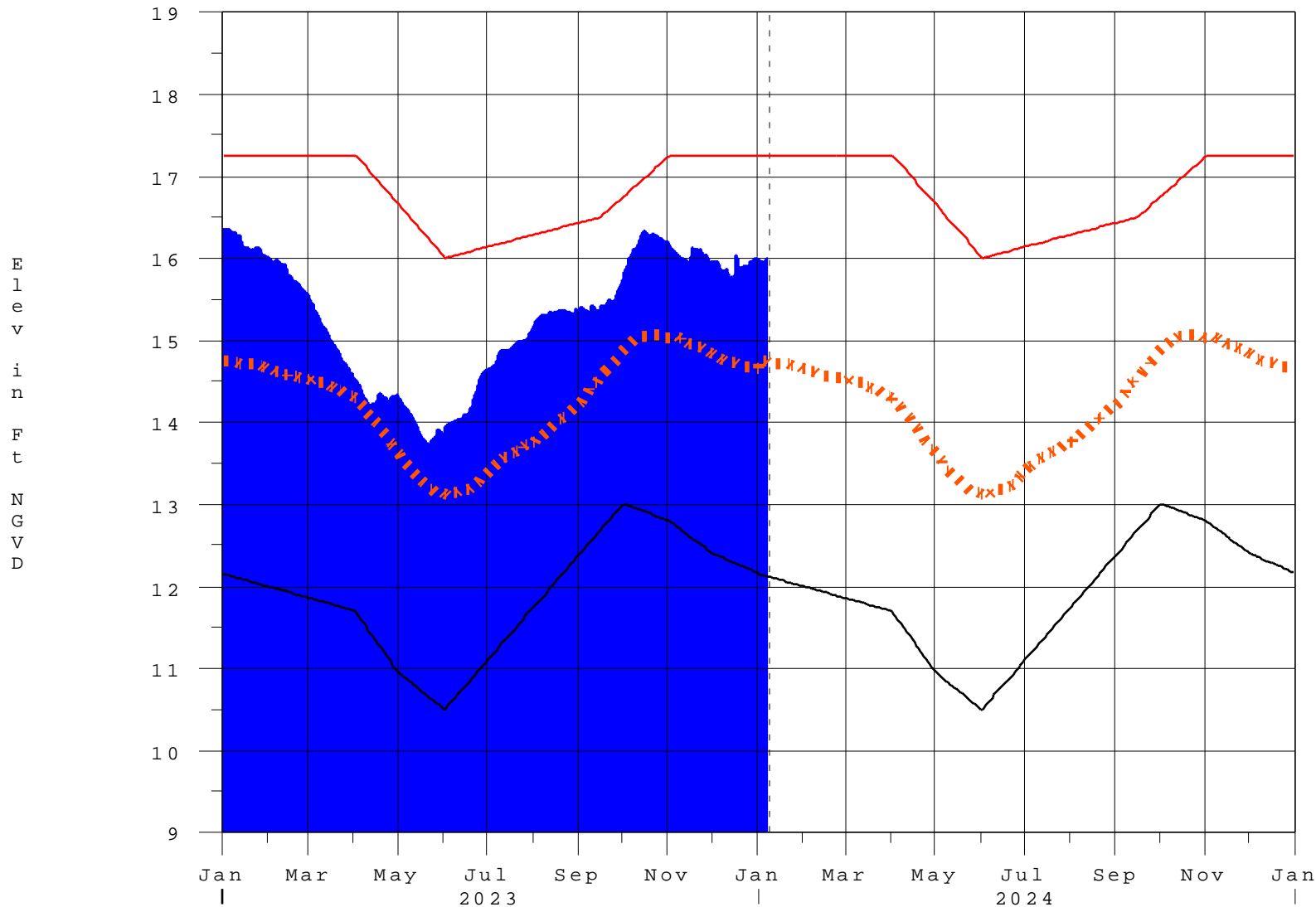
(I) - Flows preceded by "I" signify an instantaneous flow computed from the single value reported for the day

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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 08JAN2024 @ 13:15 ** Preliminary Data - Subject to Revision **

Lake Okeechobee

08JAN24 13:00:16



- 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
<p>> 2.0</p>	<p>> 4.3</p>	<p>Very Wet</p>
<p>1.18 to 2.0</p>	<p>2.51 to 4.3</p>	<p>Wet</p>
<p>0.5 to 1.17</p>	<p>1.1 to 2.5</p>	<p>Normal</p>
<p>< 0.5</p>	<p>< 1.1</p>	<p>Dry</p>

**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