

# Application of the Lake Okeechobee Regulation Schedule (LORS2008) on 04/04/2022 (ENSO Condition: La Niña)

## Lake Okeechobee Net Inflow Outlook:

The Lake Okeechobee Net Inflow Outlook has been computed using 4 methods: Croley's method<sup>1</sup>, the SFWMD empirical method<sup>2</sup>, a sub-sampling of La Nina years<sup>3</sup> and a sub-sampling of warm years of the Atlantic Multi-decadal Oscillation (AMO) in combination with La Nina ENSO years<sup>4</sup>. 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 <sup>1*</sup>		SFWMD Empirical Method <sup>2</sup>		Sub-sampling of La Nina ENSO Years <sup>3</sup>		Sub-sampling of AMO Warm + La Nina ENSO Years <sup>4</sup>	
	Value (ft)	<u>Condition</u>	Value (ft)	<u>Condition</u>	Value (ft)	<u>Condition</u>	Value (ft)	<u>Condition</u>
Current (Mar-Aug)	N/A	N/A	1.97	Wet	1.76	Wet	1.72	Wet
Multi Seasonal (Mar-Oct)	N/A	N/A	2.67	Wet	2.31	Normal	2.37	Normal

\*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 ENSO forecast used.

## ***Tributary Hydrologic Conditions Graph:***

**-2861 cfs** 14-day running average for Lake Okeechobee Net Inflow through 04/04/2022. According to the classification in Tributary Hydrologic Conditions table, this condition is Dry.

**-2.85** for Palmer Drought Index on 04/04/2022. 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 04/04/2022:**

Lake Okeechobee Stage: **13.75 feet**

Lake Okeechobee Management Zone/Band		Bottom Elevation (feet, NGVD)	Current Lake Stage
High Lake Management Band		17.21	
Operational Band	High sub-band	16.47	
	Intermediate sub-band	15.48	
	Low sub-band	13.50	← 13.75 ft
Base Flow sub-band		12.60	
Beneficial Use sub-band		11.63	
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 450 cfs at S-79 and up to 200 cfs at S-80.

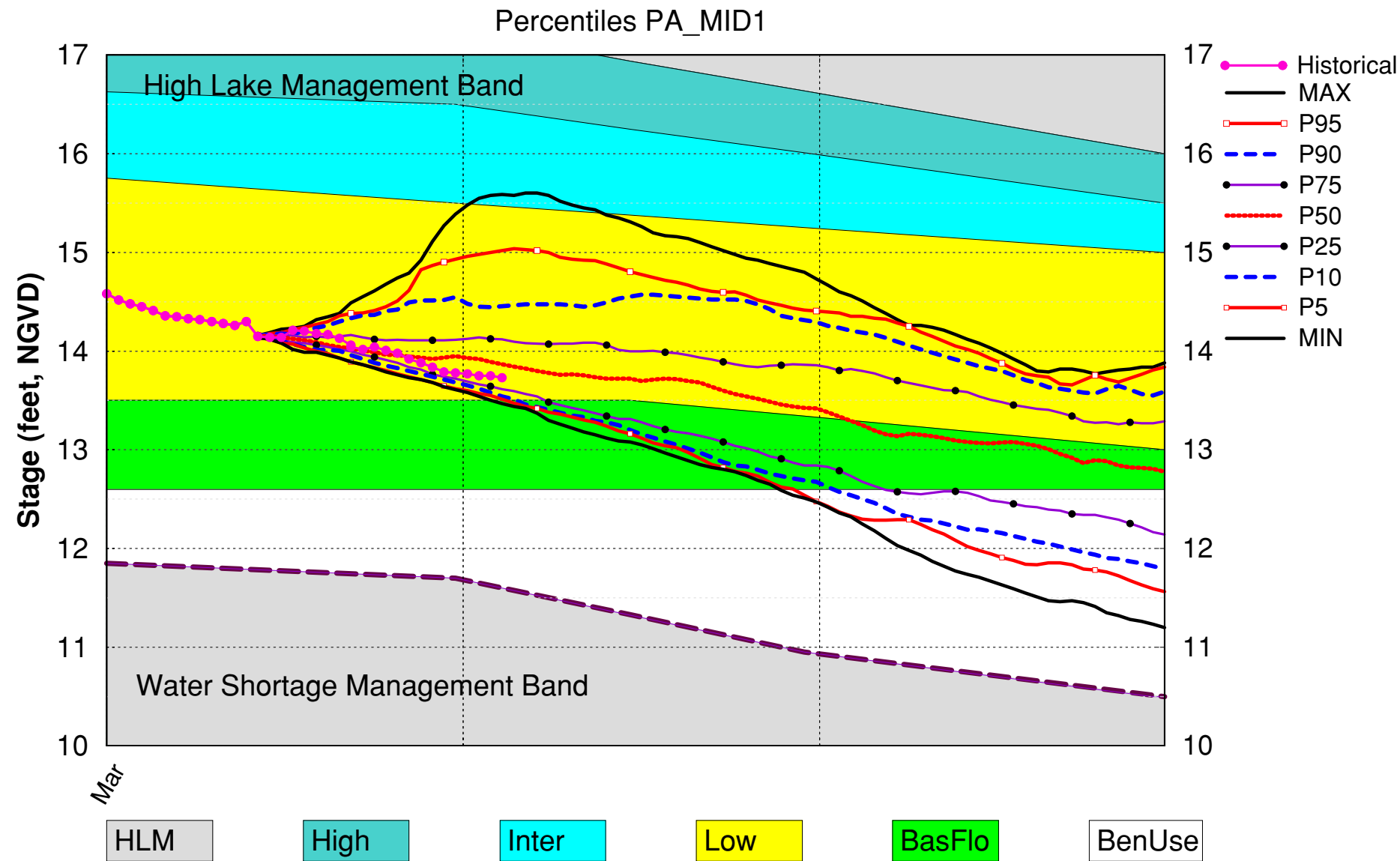
**LORS2008 Implementation on 04/04/2022 (ENSO Condition- La Nina Watch):****Status for week ending 04/04/2022:****Water Supply Risk Evaluation**

Area	Indicator	Value	Color Coded Scoring Scheme
<b>LOK</b>	Projected LOK Stage for the next two months	Low Sub-band	M
	Palmer Drought Index for LOK Tributary Conditions	-2.85 (Extremely Dry)	H
	CPC Precipitation Outlook	1 month: Below Normal	M
		3 months: Normal	L
	LOK Seasonal Net Inflow Outlook	1.76 ft	L
	ENSO Forecast	Wet	
	LOK Multi-Seasonal Net Inflow Outlook	2.31 ft	M
	ENSO Forecast	Normal	
<b>WCAs</b>	WCA 1: 3 Station Average (Sites 1-7, 1-8T and 1-9)	Above Line 1 (16.29 ft)	L
	WCA 2A: Site 2-17	Above Line 1 (11.81 ft)	L
	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (8.90 ft)	L
<b>LEC</b>	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

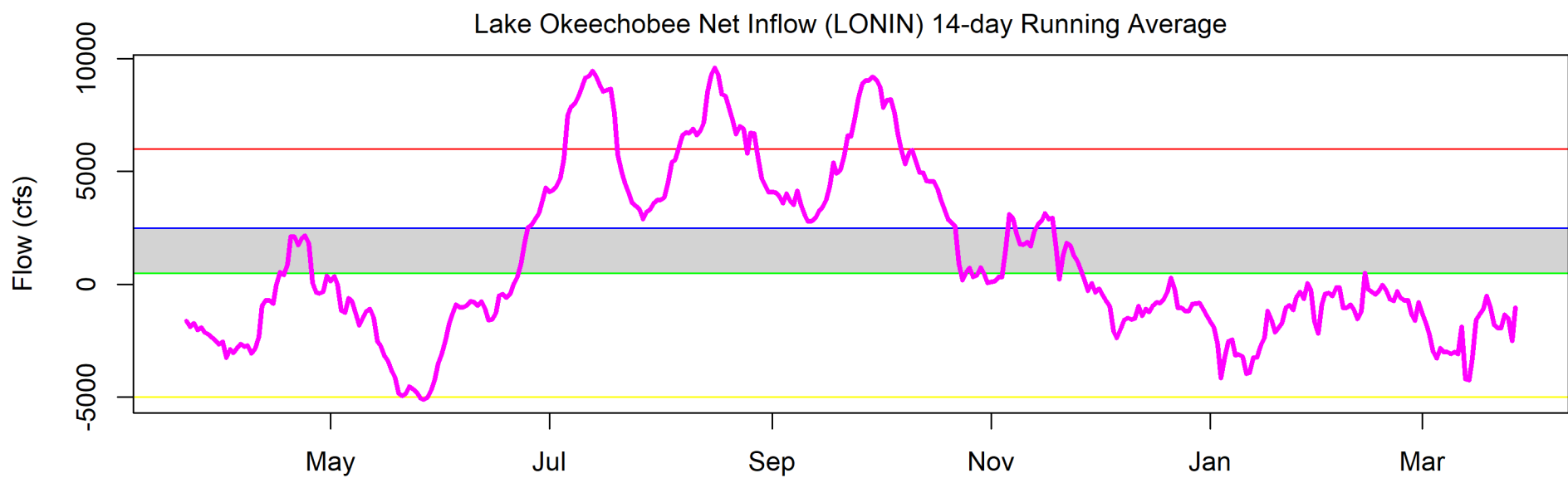
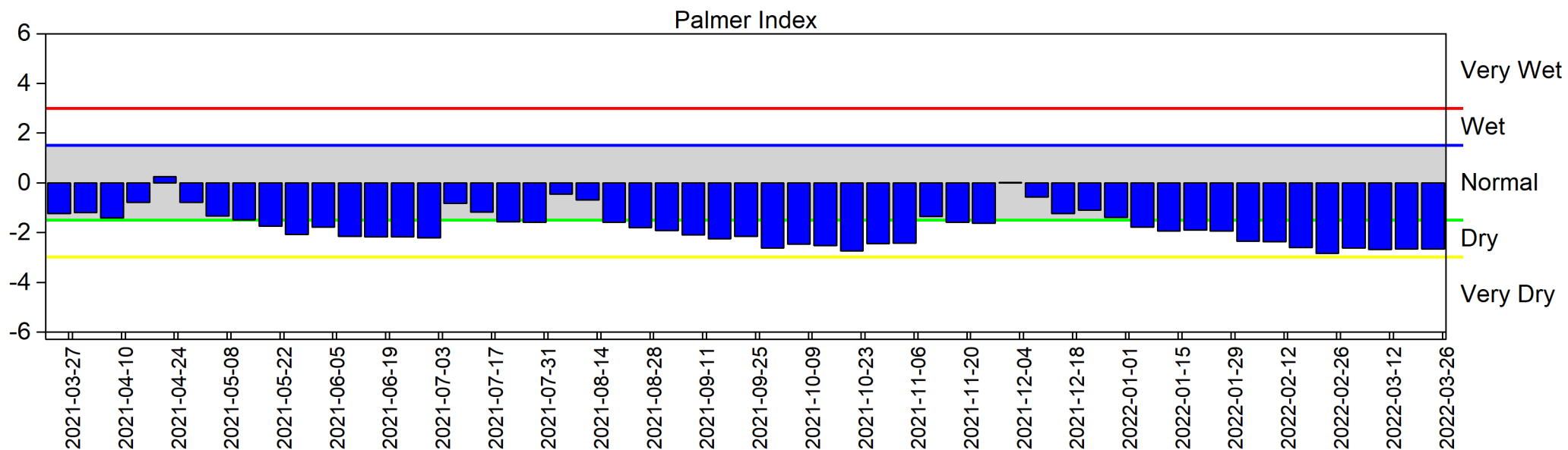
Note: The water supply risk classification based on the Palmer index, as well as the LOK seasonal and multi-seasonal net inflow outlooks use slightly different classification intervals than those used by the 2008-LORS.

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# Lake Okeechobee SFWMM Mar Mid–Mon 2022 Position Analysis



(See assumptions on the Position Analysis Results website)



# 2008 LORS

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

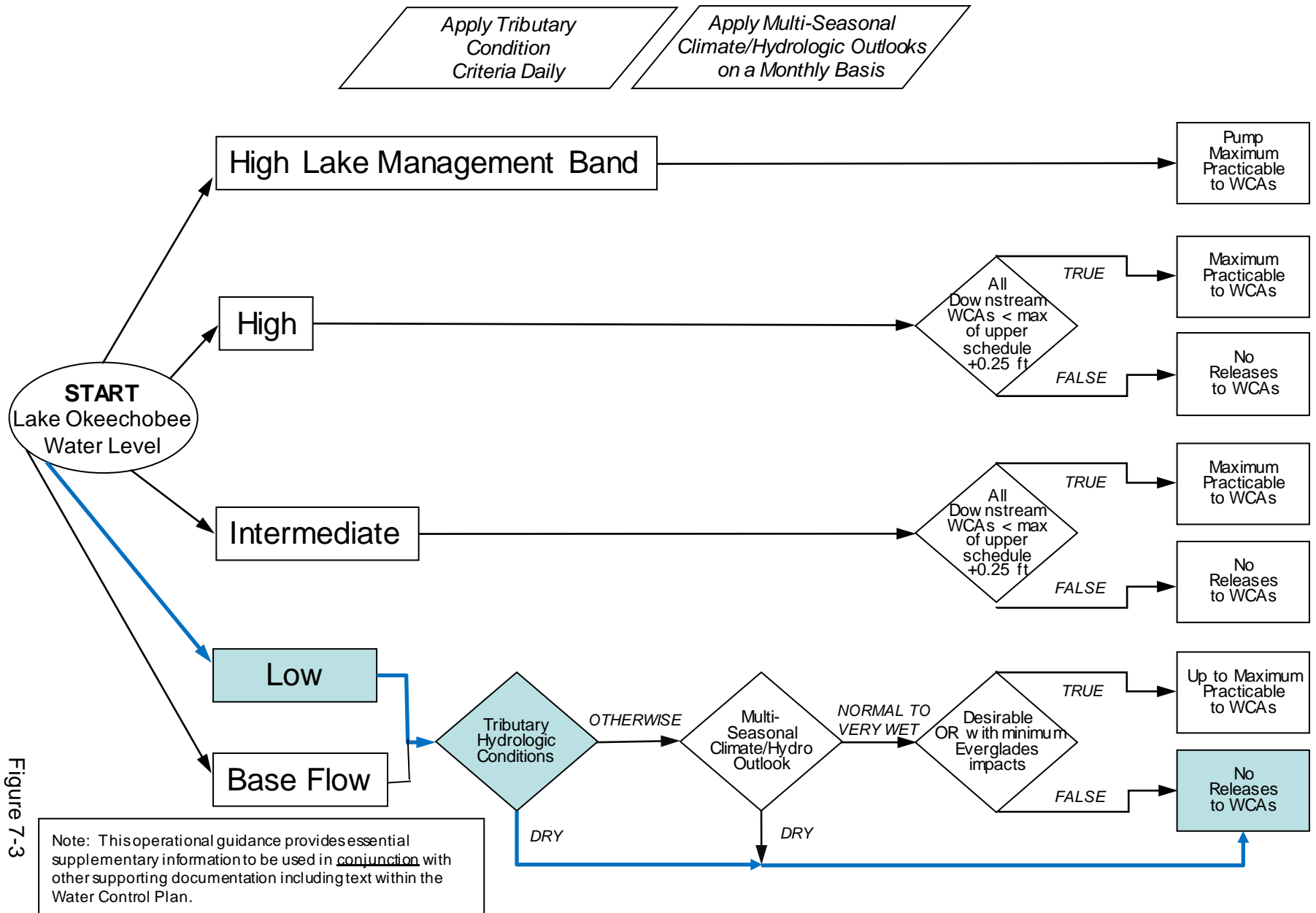


Figure 7-3

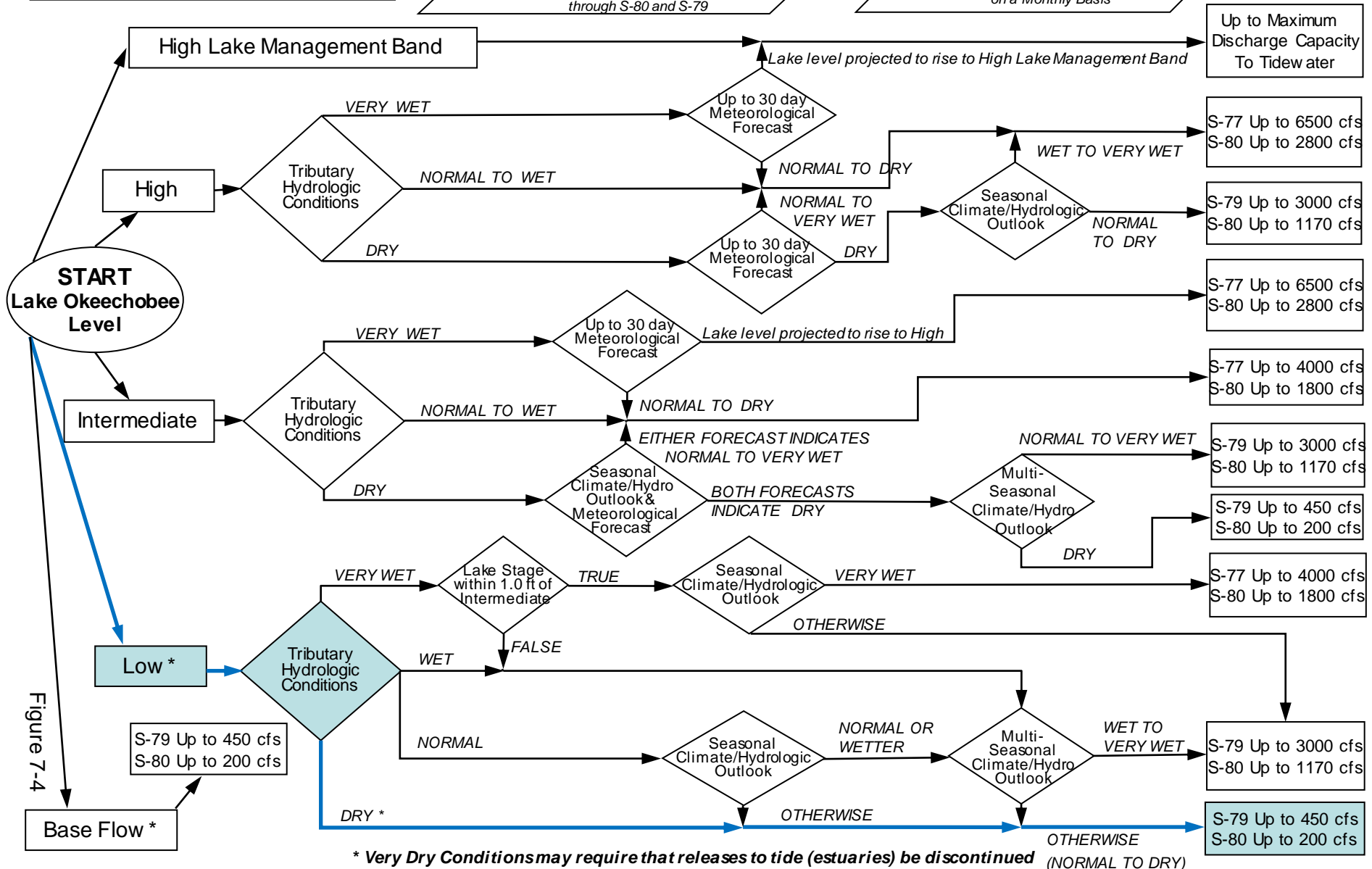
# 2008 LORS

## 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.

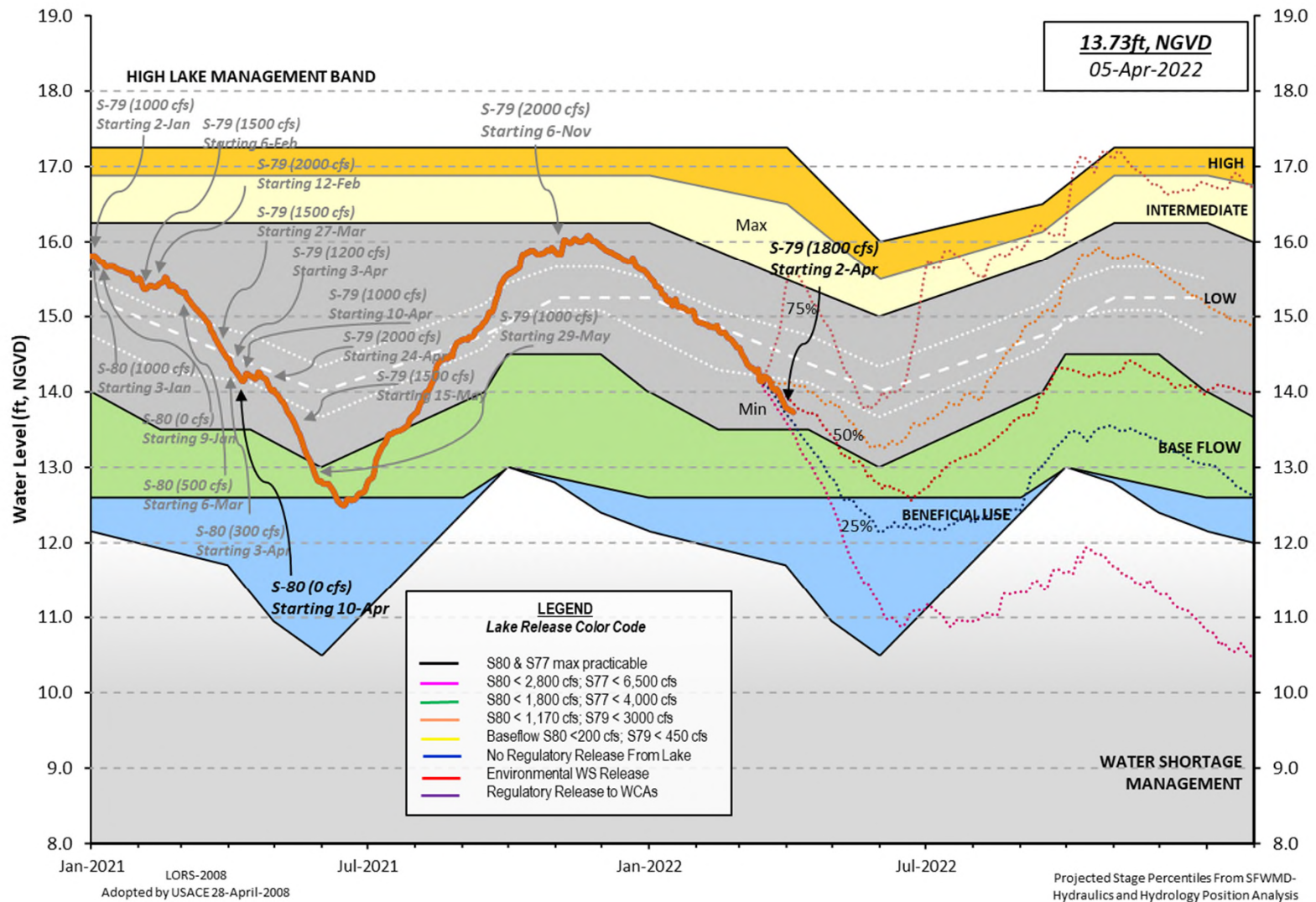
When conducting Base Flow releases, flows can be distributed East and West up to 650 cfs as needed to minimize impacts or provide benefits through S-80 and S-79

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    03 APR 2022

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Okeechobee Lake Regulation	Elevation	Last Year	2YRS Ago
	(ft-NGVD)	(ft-NGVD)	(ft-NGVD)
*Okeechobee Lake Elevation	13.75	14.32	11.74 (Official Elv)
Bottom of High Lake Mngmt=	17.21	Top of Water Short Mngmt=	11.63
Currently in Operational Management Band			

Simulated Average LORS2008 [1965-2000]	12.99
Difference from Average LORS2008	0.76

03APR (1965-2007) Period of Record Average	14.24
Difference from POR Average	-0.49

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

++Navigation Depth (Based on 2007 Channel Condition Survey) Route 1 ÷ 7.69'

++Navigation Depth (Based on 2008 Channel Condition Survey) Route 2 ÷ 5.89'

Bridge Clearance = 49.96'

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

L001	L005	L006	LZ40	S4	S352	S308	S133
13.73	13.76	13.74	13.73	-NR-	13.85	13.74	13.66

\*Combination Okeechobee Avg-Daily Lake Average = 13.75  
(\*See Note)

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Okeechobee Inflows (cfs):

S65E	884	S65EX1	0	Fisheating Cr	0
S154	0	S191	0	S135 Pumps	0
S84	0	S133 Pumps	0	S2 Pumps	0
S84X	0	S127 Pumps	0	S3 Pumps	0
S71	0	S129 Pumps	0	S4 Pumps	0
S72	0	S131 Pumps	0	C5	0
Total Inflows:	884				

Okeechobee Outflows (cfs):

S135 Culverts	0	S354	181	S77	2017
S127 Culverts	0	S351	148	S308	-NR-
S129 Culverts	0	S352	110		
S131 Culverts	0	L8 Canal Pt	-NR-		
Total Outflows: No Report Due To Missing S77 or S308 Discharge Data					

	Headwater	Tailwater		Gate Positions						
	Elevation	Elevation	Disch	#1	#2	#3	#4	#5	#6	#7
#8	(ft-msl)	(ft-msl)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft)
			(I) see note at bottom							
North East Shore										
S133 Pumps:	13.44	13.57	0	0	0	0	0	0		(cfs)
S193:										
S191:	18.85	13.56	0	0.0	0.0	0.0				
S135 Pumps:	13.36	13.33	0	0	0	0	0			(cfs)
S135 Culverts:			0	0.0	0.0					
North West Shore										
S65E:	21.14	13.55	884	0.3	0.7	0.5	0.4	0.0	0.4	
S65EX1:	21.14	13.55	0							
S127 Pumps:	13.35	13.64	0	0	0	0	0	0		(cfs)
S127 Culvert:			0	0.0						
S129 Pumps:	12.91	13.71	0	0	0	0				(cfs)
S129 Culvert:			0	0.0						
S131 Pumps:	12.73	13.82	0	0	0					(cfs)
S131 Culvert:			0							
Fisheating Creek										
nr Palmdale		27.17	0							
nr Lakeport										
C5:		-NR-	0	-NR-	-NR-	-NR-				
South Shore										
S4 Pumps:	11.50	-NR-	0	0	0	0				(cfs)
S169:		-NR-	-NR-	-NR-	-NR-	-NR-				
S310:	13.82		39							

S3 Pumps:	10.13	13.83	0	0	0	0		(cfs)
S354:	13.83	10.13	181	0.0	0.0			
S2 Pumps:	10.36	-NR-	0	-NR-	-NR-	-NR-	-NR-	(cfs)
S351:	-NR-	10.36	148	0.0	0.0	0.0		
S352:	13.85	10.16	110	0.1	0.0			
C10A:	-NR-	13.63		8.0	8.0	8.0	0.0	0.0
L8 Canal PT		13.60	-NR-					

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S351 and S352 Temporary Pumps/S354 Spillway

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S351:	10.36	-NR-	148	-NR-	-NR-	-NR-	-NR-	-NR-	-NR-
S352:	10.16	13.85	110	-NR-	-NR-	-NR-	-NR-		
S354:	10.13	13.83	181	-NR-	-NR-	-NR-	-NR-		

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Caloosahatchee River (S77, S78, S79)

S47B:	13.63	12.33		0.0	0.0
S47D:	12.27	11.09	0	0.0	

S77:

Spillway and Sector Preferred Flow:

13.54	11.00	2012	2.5	2.5	2.5	2.5
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Flow Due to Lockages+: 5

S78:

Spillway and Sector Flow:

10.95	3.31	1676	0.0	2.5	2.5	0.0
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Flow Due to Lockages+: 22

S79:

Spillway and Sector Flow:

3.16	0.82	2142	0.0	0.0	2.0	2.0	2.0	2.0	0.0
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0.0

Flow Due to Lockages+: 10

Percent of flow from S77 94%

Chloride (ppm) 0

St. Lucie Canal (S308, S80)

S308:

Spillway and Sector Preferred Flow:

13.62	13.54	532	3.0	3.0	3.0	3.0
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Flow Due to Lockages+: -NR-

S153:	18.98	-NR-	-NR-	0.0	0.0
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S80:

Spillway and Sector Flow:

13.58	1.36	0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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Flow Due to Lockages+: 26

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

					----- Wind -----	
Daily Precipitation Totals	1-Day	3-Day	7-Day	Direction		
Speed	(inches)	(inches)	(inches)	(Degø)		
(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	0.18	0.18	90	2	
S78:	0.00	0.08	0.08	117	3	
S79:	0.00	0.09	0.09	30	4	
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:	0.01	0.11	0.11	62	5	
S80:	0.00	1.91	1.91	359	0	
Okeechobee Average	0.00	0.02	0.02			
(Sites S78, S79 and S80 not included)						
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Oke Nexrad Basin Avg	-NR-	0.00	0.00			
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Okeechobee Lake Elevations	03 APR 2022	13.75	Difference from	
03APR22				
03APR22 -1 Day =	02 APR 2022	13.75	0.00	
03APR22 -2 Days =	01 APR 2022	13.77	0.02	
03APR22 -3 Days =	31 MAR 2022	13.78	0.03	
03APR22 -4 Days =	30 MAR 2022	13.79	0.04	
03APR22 -5 Days =	29 MAR 2022	13.84	0.09	
03APR22 -6 Days =	28 MAR 2022	13.88	0.13	
03APR22 -7 Days =	27 MAR 2022	13.92	0.17	
03APR22 -30 Days =	04 MAR 2022	14.41	0.66	
03APR22 -1 Year =	03 APR 2021	14.32	0.57	
03APR22 -2 Year =	03 APR 2020	11.74	-2.01	

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Long Term Mean 30day Avearge ET for Lake Alfred (Inches) = -NR-

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Lake Okeechobee Net Inflow (LONIN)  
 Average Flow over the previous 14 days | Avg-Daily Flow

03APR22	Today =	03 APR 2022	-1665	MON	3002
03APR22	-1 Day =	02 APR 2022	-2318	SUN	-1654
03APR22	-2 Days =	01 APR 2022	-2214	SAT	470
03APR22	-3 Days =	31 MAR 2022	-2422	FRI	2347
03APR22	-4 Days =	30 MAR 2022	-2568	THU	-5415
03APR22	-5 Days =	29 MAR 2022	-862	WED	-3463
03APR22	-6 Days =	28 MAR 2022	-379	TUE	-4279
03APR22	-7 Days =	27 MAR 2022	-112	MON	-7413
03APR22	-8 Days =	26 MAR 2022	-1737	SUN	-1586
03APR22	-9 Days =	25 MAR 2022	-858	SAT	-3007
03APR22	-10 Days =	24 MAR 2022	-689	FRI	7895
03APR22	-11 Days =	23 MAR 2022	-1244	THU	165
03APR22	-12 Days =	22 MAR 2022	-1237	WED	51
03APR22	-13 Days =	21 MAR 2022	-1098	TUE	-10424

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S65E					
Average Flow over previous 14 days					Avg-Daily Flow
03APR22	Today=	03 APR 2022	977	MON	1012
03APR22	-1 Day =	02 APR 2022	970	SUN	1022
03APR22	-2 Days =	01 APR 2022	957	SAT	1029
03APR22	-3 Days =	31 MAR 2022	944	FRI	987
03APR22	-4 Days =	30 MAR 2022	931	THU	968
03APR22	-5 Days =	29 MAR 2022	918	WED	960
03APR22	-6 Days =	28 MAR 2022	893	TUE	985
03APR22	-7 Days =	27 MAR 2022	861	MON	956
03APR22	-8 Days =	26 MAR 2022	822	SUN	960
03APR22	-9 Days =	25 MAR 2022	787	SAT	991
03APR22	-10 Days =	24 MAR 2022	741	FRI	906
03APR22	-11 Days =	23 MAR 2022	701	THU	929
03APR22	-12 Days =	22 MAR 2022	658	WED	977
03APR22	-13 Days =	21 MAR 2022	610	TUE	994

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S65EX1					
Average Flow over previous 14 days					Avg-Daily Flow
03APR22	Today=	03 APR 2022	0	MON	0
03APR22	-1 Day =	02 APR 2022	0	SUN	0
03APR22	-2 Days =	01 APR 2022	0	SAT	0
03APR22	-3 Days =	31 MAR 2022	0	FRI	0
03APR22	-4 Days =	30 MAR 2022	0	THU	0
03APR22	-5 Days =	29 MAR 2022	0	WED	0
03APR22	-6 Days =	28 MAR 2022	0	TUE	0
03APR22	-7 Days =	27 MAR 2022	0	MON	0
03APR22	-8 Days =	26 MAR 2022	0	SUN	0
03APR22	-9 Days =	25 MAR 2022	0	SAT	0
03APR22	-10 Days =	24 MAR 2022	0	FRI	0
03APR22	-11 Days =	23 MAR 2022	0	THU	0
03APR22	-12 Days =	22 MAR 2022	0	WED	0
03APR22	-13 Days =	21 MAR 2022	0	TUE	0

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Lake Okeechobee Outlets Last 14 Days

			S-77	Below S-77	S-78	S-79
			Discharge	Discharge	Discharge	Discharge
			(ALL DAY)	(ALL-DAY)	(ALL DAY)	(ALL DAY)
DATE			(AC-FT)	(AC-FT)	(AC-FT)	(AC-FT)
03 APR 2022			4001	4078	3368	4281
02 APR 2022			3671	3677	3010	3482
01 APR 2022			2669	2549	2256	3671
31 MAR 2022			3610	3811	2741	3435
30 MAR 2022			4900	5241	3700	3975
29 MAR 2022			4628	4615	3509	3850
28 MAR 2022			3599	3827	2624	3468
27 MAR 2022			4381	4436	3133	4046
26 MAR 2022			3998	4022	3719	4075
25 MAR 2022			3255	3427	2711	4159
24 MAR 2022			3297	3358	2628	3090
23 MAR 2022			3352	3206	2516	2881
22 MAR 2022			3706	3733	2739	3555
21 MAR 2022			4248	4494	3219	4364

			S-310	S-351	S-352	S-354	L8 Canal Pt
			Discharge	Discharge	Discharge	Discharge	Discharge
			(ALL DAY)	(ALL DAY)	(ALL DAY)	(ALL DAY)	(ALL DAY)
DATE			(AC-FT)	(AC-FT)	(AC-FT)	(AC-FT)	(AC-FT)
03 APR 2022			78	293	219	360	-NR-
02 APR 2022			147	0	0	0	-NR-
01 APR 2022			288	55	338	292	-NR-
31 MAR 2022			117	942	1293	1058	-NR-
30 MAR 2022			266	1047	1231	1355	-NR-
29 MAR 2022			375	1170	1119	1592	-NR-
28 MAR 2022			277	1252	604	1632	-NR-
27 MAR 2022			130	1975	754	2545	-NR-
26 MAR 2022			180	1874	903	1508	-NR-
25 MAR 2022			18	1462	393	582	-NR-
24 MAR 2022			143	1877	37	449	-NR-
23 MAR 2022			267	2748	119	621	-NR-
22 MAR 2022			397	2445	11	562	-NR-
21 MAR 2022			244	3316	45	180	-NR-

			S-308	Below S-308	S-80
			Discharge	Discharge	Discharge
			(ALL DAY)	(ALL-DAY)	(ALL-DAY)
DATE			(AC-FT)	(AC-FT)	(AC-FT)
03 APR 2022			-NR-	-NR-	52
02 APR 2022			-NR-	-NR-	61
01 APR 2022			-NR-	-NR-	50
31 MAR 2022			-NR-	-NR-	46
30 MAR 2022			-NR-	-NR-	45
29 MAR 2022			-NR-	-NR-	49
28 MAR 2022			-NR-	-NR-	0
27 MAR 2022			555	-NR-	0
26 MAR 2022			778	-NR-	0
25 MAR 2022			730	-NR-	0
24 MAR 2022			1102	-NR-	0
23 MAR 2022			1448	-NR-	0
22 MAR 2022			1319	-NR-	0
21 MAR 2022			959	-NR-	0

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

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(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](http://www.sfwmd.gov)

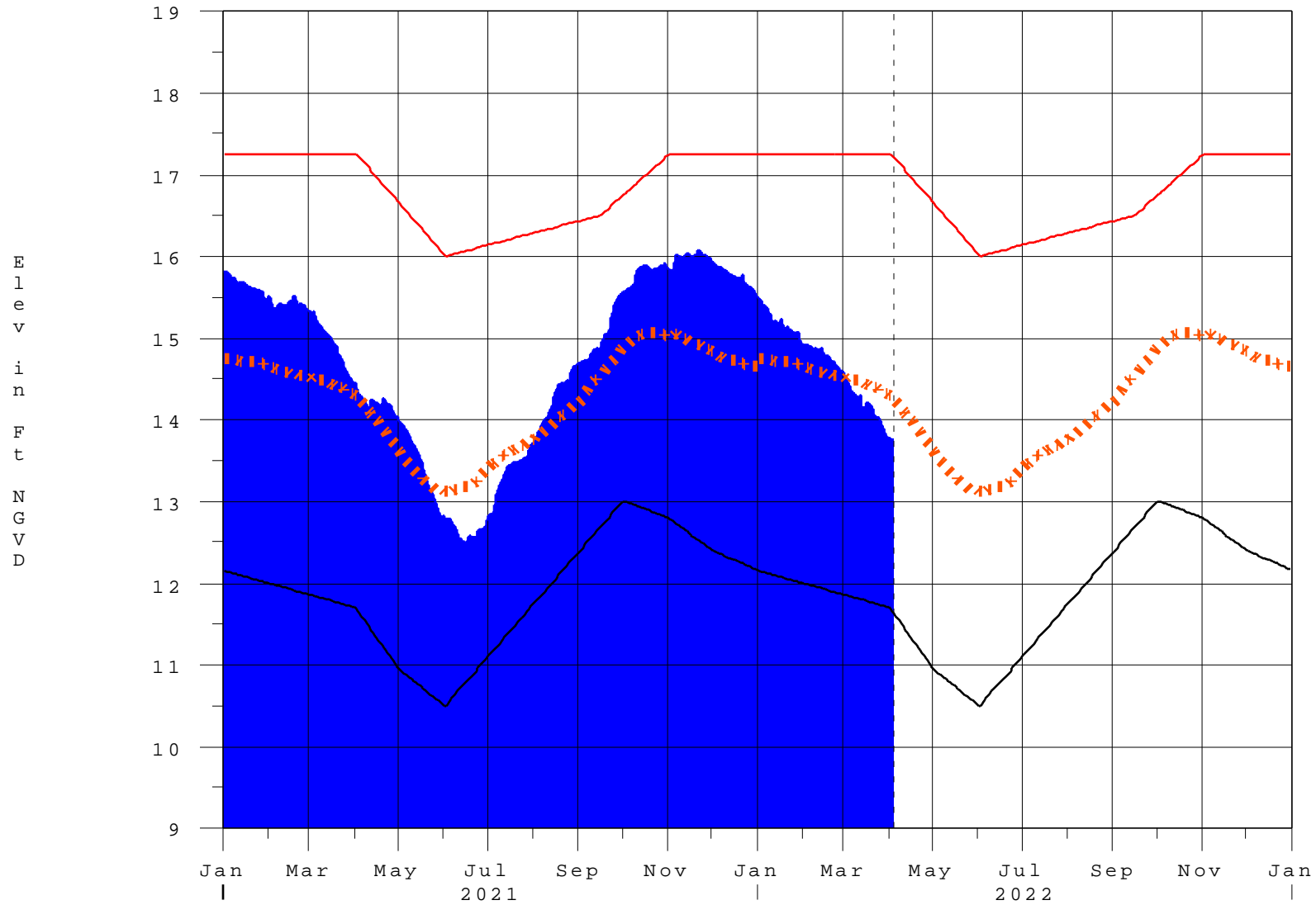
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Report Generated 04APR2022 @ 10:15 \*\* Preliminary Data - Subject to Revision  
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# Lake Okeechobee

04APR22 14:00:21



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

# Classification Tables

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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 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\*

<b>Lake Net Inflow Prediction  [million acre-feet]</b>	<b>Equivalent Depth**  [feet]</b>	<b>Lake Okeechobee  Net Inflow  Seasonal Outlook</b>
> 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\*

<b>Lake Net Inflow Prediction</b>  <b>[million acre-feet]</b>	<b>Equivalent Depth**</b>  <b>[feet]</b>	<b>Lake Okeechobee  Net Inflow  Multi-Seasonal Outlook</b>
> 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\***

<b>6-15 Day Precipitation Outlook Categories</b>	<b>WSE Decision Tree Categories</b>
Above Normal	Wet to Very Wet
Normal	Normal
Below Normal	Dry

**\* Corresponds to Table 7-6 in the Lake Okeechobee Water Control Plan**