Application of the Lake Okeechobee Regulation Schedule (LORS2008) on 12/05/2022 (ENSO Condition: La Niña)

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 subsampling of La Niña years and a sub-sampling of warm years of the Atlantic Multi-decadal Oscillation (AMO) in combination with La Niña 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 La Niña ENSO Years**		Sub-sampling of AMO Warm + La Niña ENSO Years***	
	Value (ft)	Condition	Value (ft)	Condition	Value (ft)	Condition	Value (ft)	Condition
Current (Dec-May)	N/A	N/A	0.06	Dry	-0.19	Dry	-0.38	Dry
Multi Seasonal (Dec-Oct)	N/A	N/A	2.42	Normal	2.54	Wet	2.12	Normal

^{*}Croley's Method Not Produced for This Report

See <u>Seasonal</u> and <u>Multi-Seasonal</u> 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 Graph:

4570 cfs 14-day running average for Lake Okeechobee Net Inflow through 12/05/2022. According to the classification in <u>Tributary Hydrologic Conditions</u> table, this condition is Wet.

-1.36 for Palmer Drought Index on 12/03/2022.

According to the classification in <u>Tributary Hydrologic Conditions</u> table, this condition is Near Normal.

The wetter of the two conditions above is Wet.

LORS2008 Classification Tables:

Lake Okeechobee Stage on 12/05/2022:

Lake Okeechobee Stage: 16.48 feet

	ee Management /Band	Bottom Elevation (feet, NGVD)	Current Lake Stage
High Lake Manage	ement Band	17.25	
	High sub-band	16.88	
Operational Band	Intermediate sub-band	16.25	← 16.48 ft
	Low sub-band	14.44	
Base Flow sub-ba	nd	12.72	
Beneficial Use sub	o-band	12.37	
Water Shortage M	lanagement Band		

Part C of LORS2008: Discharge to WCAs

Maximum practicable to WCAs if "All downstream WCAs < max. of upper schedule + 0.25 ft". Currently, all WCAs have the potential to receive regulatory releases from Lake Okeechobee.

Part D of LORS2008: Discharge to Tide

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

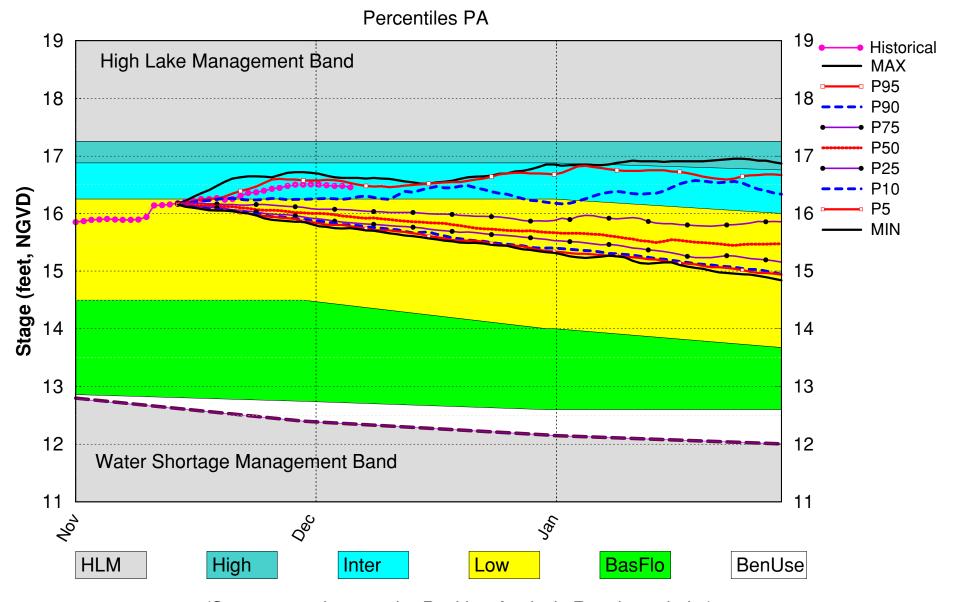
LORS2008 Implementation on 12/05/2022 (ENSO Condition- La Niña Watch): Status for week ending 12/05/2022:

Water Supply Risk Evaluation

Area	Indicator	Value	Color Coded Scoring Scheme
	Projected LOK Stage for the next two months	Intermediate Sub-band	L
	Palmer Drought Index for LOK Tributary Conditions	-1.36 (Dry)	M
	CDC Procinitation Outlank	1 month: Below Normal	M
LOK	CPC Precipitation Outlook	3 months: Below Normal	M
	LOK Seasonal Net Inflow Outlook	-0.19 ft	Н
	ENSO Forecast	Extremely Dry	''
	LOK Multi-Seasonal Net Inflow Outlook	2.54 ft	M
	ENSO Forecast	Normal	IVI
	WCA 1: 3 Station Average (Sites 1-7, 1-8T, 1-9)	Above Line 1 (17.36 ft)	L
WCAs	WCA 2A: Site 2-17	Above Line 1 (13.13 ft)	L
	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (10.55 ft)	L
	Service Area 1	Year-Round Irrigation Rule in effect	L
LEC	Service Area 2	Year-Round Irrigation Rule in effect	L
	Service Area 3	Year-Round Irrigation Rule in effect	L

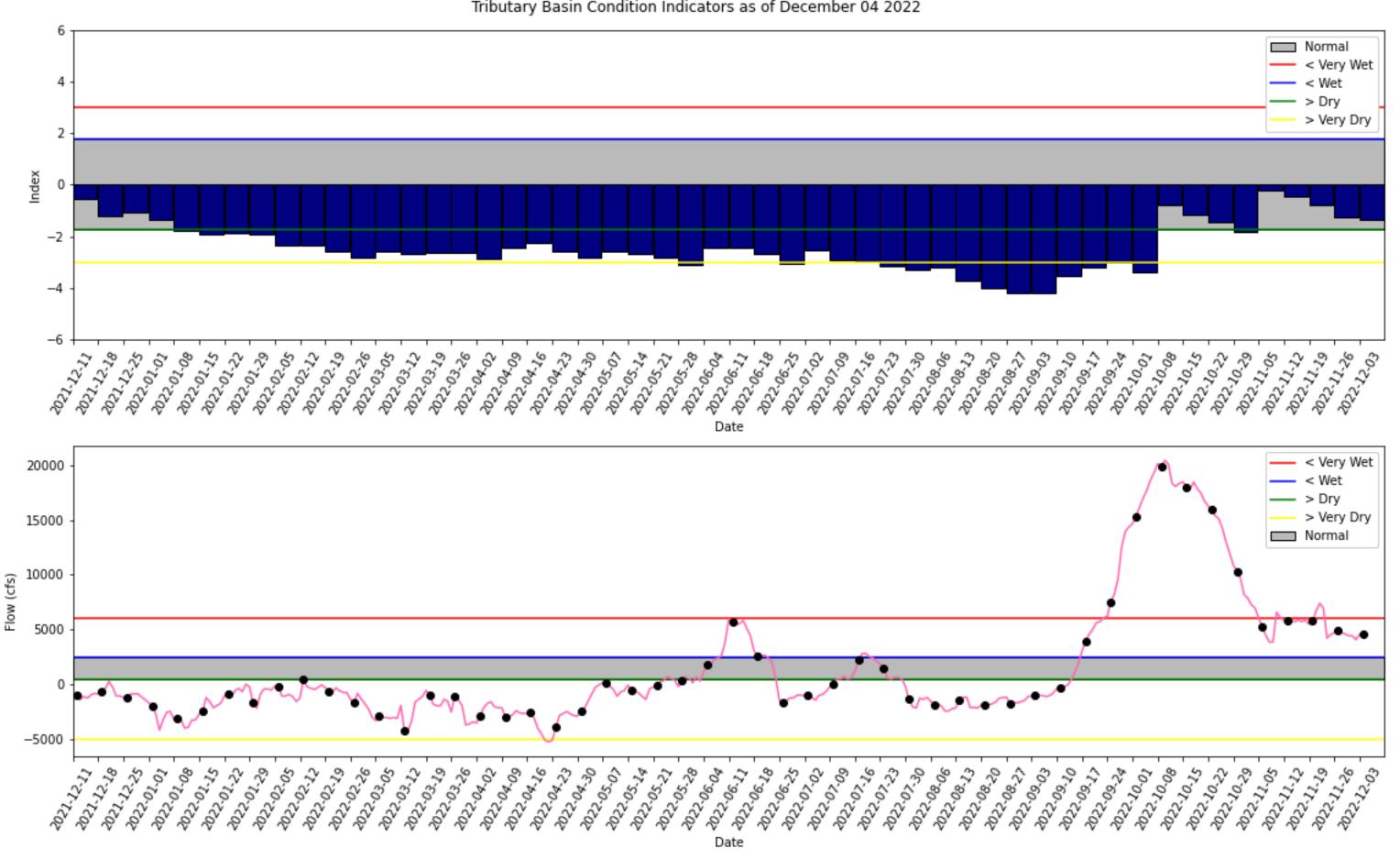
Note: The water supply risk classification based on the Palmer index, as well as the LOK seasonal and multi-seasonal net inflow outlooks use slightly different classification intervals than those used by the 2008-LORS.

Lake Okeechobee SFWMM Nov Mid-Mon 2022 Position Analysis



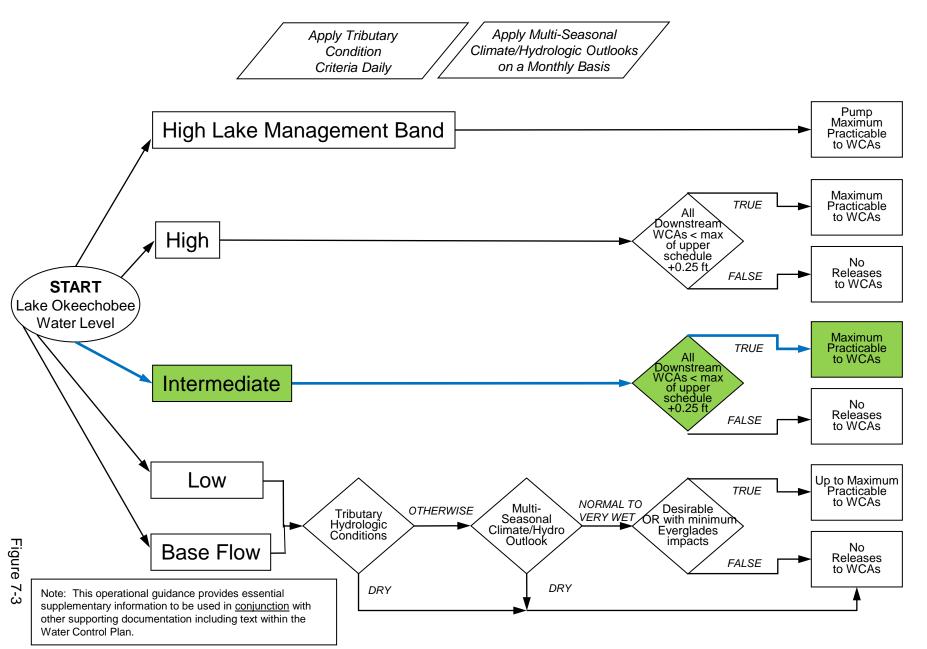
(See assumptions on the Position Analysis Results website)

Tributary Basin Condition Indicators as of December 04 2022



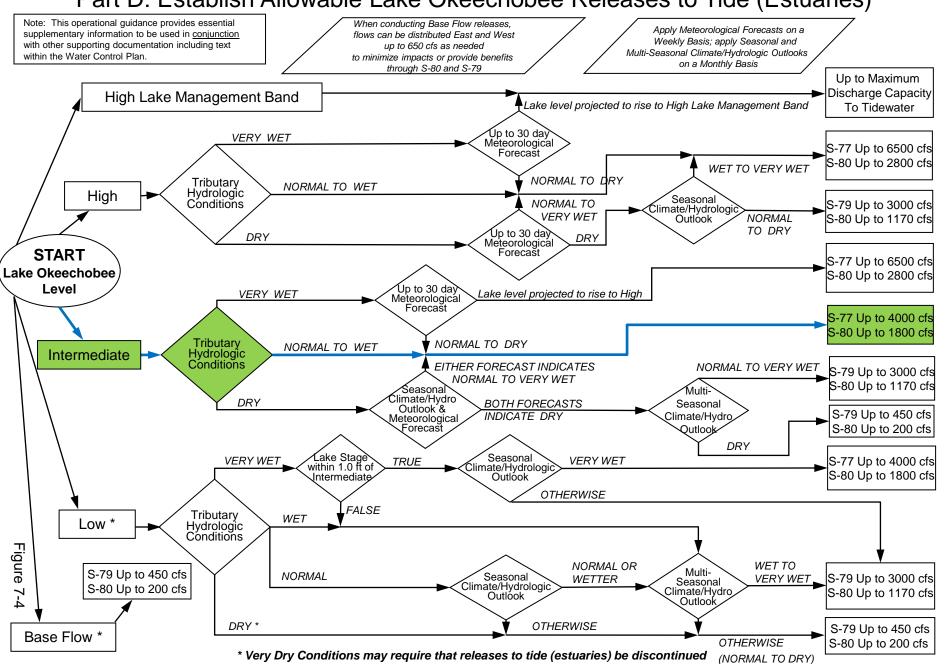
2008 LORS

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

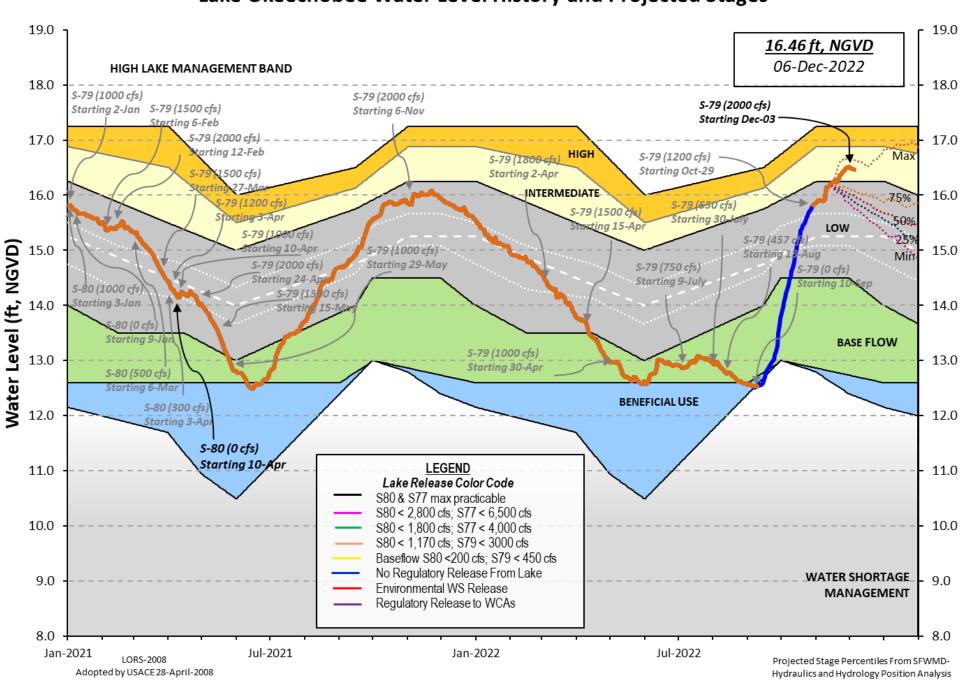


2008 LORS

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



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 DEC 2022

Okeechobee Lake Regulation Elevation Last Year 2YRS Ago (ft-NGVD) (ft-NGVD) (ft-NGVD)

*Okeechobee Lake Elevation 16.48 15.88 15.98 (Official Elv)

Bottom of High Lake Mngmt= 17.25 Top of Water Short Mngmt= 12.37

Currently in Operational Management Band

Simulated Average LORS2008 [1965-2000] 13.73 Difference from Average LORS2008 2.75

04DEC (1965-2007) Period of Record Average 14.79 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 � 10.42' ++Navigation Depth (Based on 2008 Channel Condition Survey) Route 2 � 8.62' Bridge Clearance = 49.63'

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

S308 L001 L005 LZ40 L006 **S4** S352 S133 16.61 16.53 16.58 16.55 16.52 16.64 16.11 16.43

*Combination Okeechobee Avg-Daily Lake Average = 16.48 (*See Note)

Okeechobee Inf	lows (cfs):				
S65E	2065	S65EX1	0	Fisheating Cr	167
S154	29	S191	18	S135 Pumps	0
S84	1	S133 Pumps	0	S2 Pumps	0
S84X	0	S127 Pumps	0	S3 Pumps	0
S71	167	S129 Pumps	0	S4 Pumps	0
S72	210	S131 Pumps	0	C5	0
Total Inflows:	2657				

Okeechobee Outflows (cfs):

OKEECHODEE OUTLIOWS	(613).				
S135 Culverts	0	S354	212	S77	1746
S127 Culverts	0	S351	120	S308	5
S129 Culverts	0	S352	110		
S131 Culverts	0	L8 Canal Pt	170		
T-4-1 0+C1 21	264				

Total Outflows: 2364

****S77 structure flow is being used to compute Total Outflow. ****S308 structure flow is being used to compute Total Outflow.

Okeechobee Pan Evaporation (inches):

0.17 S308 0.18

Average Pan Evap x 0.75 Pan Coefficient = 0.13" = 0.01'

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

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

Evaporation - Precipitation using Lake Area of 730 square miles

----- Gate Positions -----Headwater Tailwater 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: 13.53 16.46 0 0 0 0 0 (cfs) S193: S191: 19.45 16.45 18 0.0 0.0 0.0 S135 Pumps: 13.34 16.40 0 0 0 0 0 (cfs) S135 Culverts: 0 0.0 0.0 North West Shore S65E: 16.23 2065 1.4 1.2 0.7 1.4 0.9 0.7 20.87 S65EX1: 20.87 16.23 0 S127 Pumps: 13.47 16.43 0 0 0 0 0 0 (cfs) 0.0 S127 Culvert: 0 S129 Pumps: 12.99 0 0 (cfs) 16.48 0 0 S129 Culvert: 0.0 S131 Pumps: 13.15 16.48 0 0 (cfs) 0 S131 Culvert: 0 Fisheating Creek nr Palmdale 167 31.47 nr Lakeport -NR-0 -NR- -NR- -NR-C5: South Shore -NR-S4 Pumps: 11.77 -NR- -NR- -NR-(cfs) -NR--NR--NR- -NR- -NR-S169: S310: 16.45 1 S3 Pumps: 0 10.44 16.51 0 (cfs) 0 0 16.51 S354: 10.44 212 0.9 0.1 S2 Pumps: 10.03 16.55 0 0 0 0 (cfs) 16.55 10.03 0.2 0.2 0.0 S351: 120 S352: 16.63 10.27 0.2 0.2 110 C10A: -NR--NR--NR- -NR- -NR--NR-L8 Canal PT 14.42 170 S351 and S352 Temporary Pumps/S354 Spillway S351: 10.03 16.55 120 -NR--NR--NR--NR--NR-S352: 10.27 16.63 110 -NR--NR--NR-S354: 10.44 16.51 212 -NR--NR--NR-Caloosahatchee River (S77, S78, S79) S47B: 14.28 11.21 0.5 1.0 S47D: 11.16 11.16 -40 6.0 S77: Spillway and Sector Preferred Flow: 11.06 1738 0.0 3.0 3.0 0.0 16.32 8 Flow Due to Lockages+:

Spillway and Sector Flow:

11.03 2.83 1808 1.5 2.5 2.5 0.0

Flow Due to Lockages+: 14

S79:

Spillway and Sector Flow:

2.98 2.00 2811 0.0 0.0 0.0 2.5 2.5 3.5 2.5 0.0

Flow Due to Lockages+: 7
Percent of flow from S77 62%
Chloride (ppm) 0

St. Lucie Canal (S308, S80)

S308:

Spillway and Sector Preferred Flow:

16.12 13.87 0 0.0 0.0 0.0 0.0

Flow Due to Lockages+: 5

S153: 18.84 14.26 64 0.0 0.0

S80:

Spillway and Sector Flow:

14.51 0.98 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

				Wi	nd
aily Precipitation Totals	1-Day	3-Day	7-Day	Directio	n Speed
	(inches)	(inches)	(inches)	(Deg�)	(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	228	1
S78:	-NR-	0.00	0.00	236	1
S79:	-NR-	0.00	0.00	3	0
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		
5308:	-NR-	0.00	0.00	56	1
S80:	-NR-	0.00	0.00	255	2
Okeechobee Average	-NR-	0.00	0.00		
(Sites S78, S79 and					
Oke Nexrad Basin Avg	-NR-	0.00	0.00		

04DEC22	-2	Davs =		02	DEC	2022		16.49	0.01
04DEC22		Days =				2022		16.50	0.02
04DEC22		Days =				2022		16.51	0.03
04DEC22	-5	Days =		29	NOV	2022		16.50	0.02
04DEC22		Days =		28	NOV	2022		16.50	0.02
		Days =				2022			
04DEC22		-						16.48	0.00
04DEC22	-30	Days =				2022		15.91	-0.57
04DEC22	-1	Year =		04	DEC	2021		15.88	-0.60
04DEC22	-2	Year =		04	DEC	2020		15.98	-0.50
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Long Term N	1ean	30day /						·	-NR-
								ow (LONIN)	
			erage				previous		Avg-Daily Flow
04DEC22	-	Today =		04	DEC	2022	4574	MON	2350
04DEC22		Day =		03	DEC	2022	4570	SUN	-78
04DEC22		Days =				2022	4092	SAT	-314
		-							
04DEC22		Days =				2022	4440	FRI	-70
04DEC22		Days =		30	NOV	2022	4447	THU	4453
04DEC22	-5	Days =		29	NOV	2022	4616	WED	512
04DEC22		Days =				2022	4743	TUE	4829
04DEC22		-				2022		MON	6829
		Days =					4886		
04DEC22		Days =				2022	4724	SUN	4575
04DEC22	-9	Days =		25	NOV	2022	4561	SAT	6828
04DEC22	-10	Davs =				2022	4237		6828
04DEC22						2022	6949	THU	2293
04DEC22						2022	7406	WED	11368
04DEC22	-13	Days =		21	NOV	2022	6751	TUE	13637
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04DEC22		Day =		03	DEC	2022	3044	SUN	2239
04DEC22	-2	Days =		02	DEC	2022	3080	SAT	2384
04DEC22	- 3	Days =		91	DFC	2022	3122	FRI	2721
04DEC22		Days =				2022	3150	THU	2814
		-							
04DEC22		Days =				2022	3176	WED	2960
04DEC22	-6	Days =				2022	3187	TUE	3155
04DEC22	-7	Days =		27	NOV	2022	3181	MON	3441
04DEC22		-				2022	3154		3666
04DEC22		-				2022	3093	SAT	3544
04DEC22	-10	Days =				2022	3043	FRI	3416
04DEC22	-11	Days =		23	NOV	2022	2997	THU	3145
04DEC22		-				2022	2939	WED	3134
04DEC22						2022	2884	TUE	3212
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04DEC22 04DEC22	-2 -3	Day = Days = Days =		03 02 01	DEC DEC DEC	2022 2022	109 121	SUN SAT	0 0
04DEC22 04DEC22 04DEC22 04DEC22	-2 -3 -4	Day = Days = Days = Days =		03 02 01 30	DEC DEC DEC NOV	2022 2022 2022	109 121 133	SUN SAT FRI	0 0 0
04DEC22 04DEC22 04DEC22 04DEC22 04DEC22	-2 -3 -4 -5	Day = Days = Days = Days = Days =		03 02 01 30 29	DEC DEC DEC NOV NOV	2022 2022 2022 2022 2022	109 121 133 145 157	SUN SAT FRI THU WED	0 0 0 0 0 40
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DATE 04 DEC 2022 03 DEC 2022 01 DEC 2022 30 NOV 2022 29 NOV 2022 28 NOV 2022 27 NOV 2022 26 NOV 2022 25 NOV 2022 24 NOV 2022 23 NOV 2022 22 NOV 2022 21 NOV 2022	2 3901 2 3683 2 4144 2 4338 2 1024 2 589 2 24 2 19 2 13 2 9 2 10 9	Below S-77 Discharge (ALL-DAY) (AC-FT) 3852 4556 4374 4571 4248 1016 770 238 37 411 299 -29 -284 262	S-78 Discharge (ALL DAY) (AC-FT) 3640 3361 3113 3276 3507 1148 361 553 672 661 447 203 679 1606	S-79 Discharge (ALL DAY) (AC-FT) 5630 4724 4503 5622 3816 2949 2014 1596 1847 2222 1569 1436 2799 3270	
DATE 04 DEC 2022 03 DEC 2022 01 DEC 2022 30 NOV 2022 29 NOV 2022 27 NOV 2022 26 NOV 2022 25 NOV 2022 24 NOV 2022 24 NOV 2022 25 NOV 2022 27 NOV 2022 28 NOV 2022 29 NOV 2022 21 NOV 2022 21 NOV 2022	2 8 2 9 2 3 2 15 2 5 2 -3 2 4 2 -5 2 11 2 8 2 3	S-351 Discharge (ALL DAY) (AC-FT) 238 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S-352 Discharge (ALL DAY) (AC-FT) 218 47 46 46 45 46 46 44 46 44 48 49 48	S-354 Discharge (ALL DAY) (AC-FT) 421 34 33 154 0 0 0 0 0 0 0	L8 Canal Pt Discharge (ALL DAY) (AC-FT) 338 369 136 6 -6 8 -19 9 31 -0 -16 -20 -13 4
DATE 04 DEC 2022 03 DEC 2022 01 DEC 2022 30 NOV 2022 29 NOV 2022 27 NOV 2022 26 NOV 2022 25 NOV 2022 24 NOV 2022 23 NOV 2022 22 NOV 2022 21 NOV 2022 21 NOV 2022	2 16 2 13 2 18 2 14 2 12 2 8 2 14 2 14 2 7 2 3 2 8 2 9	Below S-308 Discharge (ALL-DAY) (AC-FT) -NRNRNRNRNRNRNRNR	Discharge		

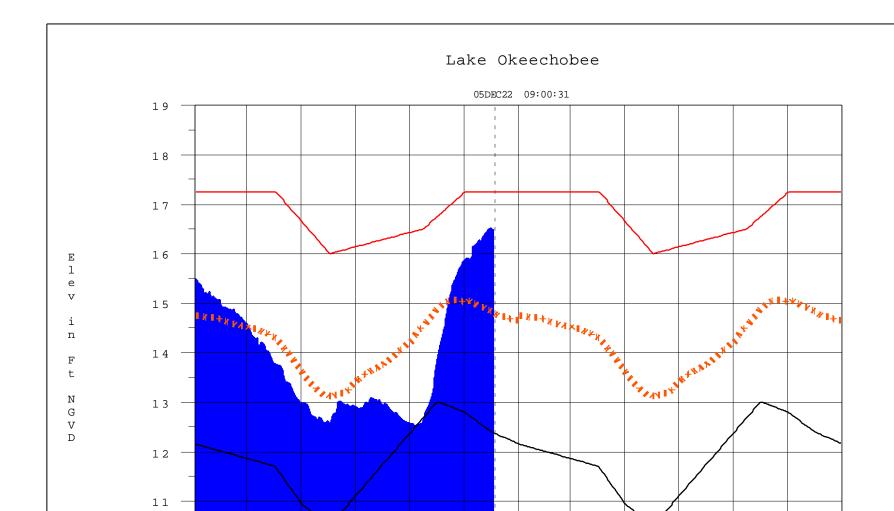
*** NOTE: Discharge (ALL DAY) is computed using Spillway, Sector Gate and Lockages Discharges from 0015 hrs to 2400 hrs.

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

- * 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

Report Generated 05DEC2022 @ 09:15 ** Preliminary Data - Subject to Revision **



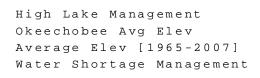
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Classification Tables

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	Palmer Index	2-wk Mean L.O. Net
Classification*	Class Limits	Inflow Class Limits
Very Wet	3.0 or greater	Greater >= 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	Equivalent Depth**	Lake Okeechobee
[million acre-feet]	[feet]	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

<u>Classification of Lake Okeechobee Net Inflow Multi-Seasonal Outlook</u>*

Lake Net Inflow Prediction	Equivalent Depth**	Lake Okeechobee
[million acre-feet]	[feet]	Net Inflow
[[root]	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