Application of the Lake Okeechobee Regulation Schedule (LORS2008) on 10/25/2021 (ENSO Condition: La Nina watch)

Lake Okeechobee Net Inflow Outlook:

The Lake Okeechobee Net Inflow Outlook has been computed using 4 methods: Croley's method¹, the SFWMD empirical method², a sub-sampling of ENSO Neutral years³ and a sub-sampling of warm years of the Atlantic Multi-decadal Oscillation (AMO) in combination with ENSO Neutral years⁴. 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 ^{1*}		SFWMD Empirical Method ²		Sub-sampling of La Nina Years ³		Sub-sampling of AMO Warm + La Nina Years ⁴	
	Value (ft)	Condition	Value (ft)	Condition	Value (ft)	Condition	Value (ft)	Condition
Current (Oct-Mar)	N/A	N/A	0.93	Normal	0.26	Dry	0.20	Dry
Multi Seasonal (Oct-Apr)	N/A	N/A	0.87	Dry	0.12	Dry	0.09	Dry

^{*}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 ENSO forecast used.

Tributary Hydrologic Conditions Graph:

186 cfs 14-day running average for Lake Okeechobee Net Inflow through 10/25/2021. According to the classification in <u>Tributary Hydrologic Conditions</u> table, this condition is Dry.

-2.73 for Palmer Drought Index on 10/13/2021.

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

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

LORS2008 Classification Tables:

Lake Okeechobee Stage on 10/25/2021:

Lake Okeechobee Stage: 15.85 feet

	ee Management Band	Bottom Elevation (feet, NGVD)	Current Lake Stage
High Lake Manage	ement Band	17.12	
	High sub-band	16.75	
Operational Band	Intermediate sub-band	16.16	
	Low sub-band	14.50	← 15.85 ft
Base Flow sub-ba	Base Flow sub-band		
Beneficial Use sub-band		12.85	
Water Shortage M	lanagement 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.

LORS2008 Implementation on 10/25/2021 (ENSO Condition- La Nina Watch):

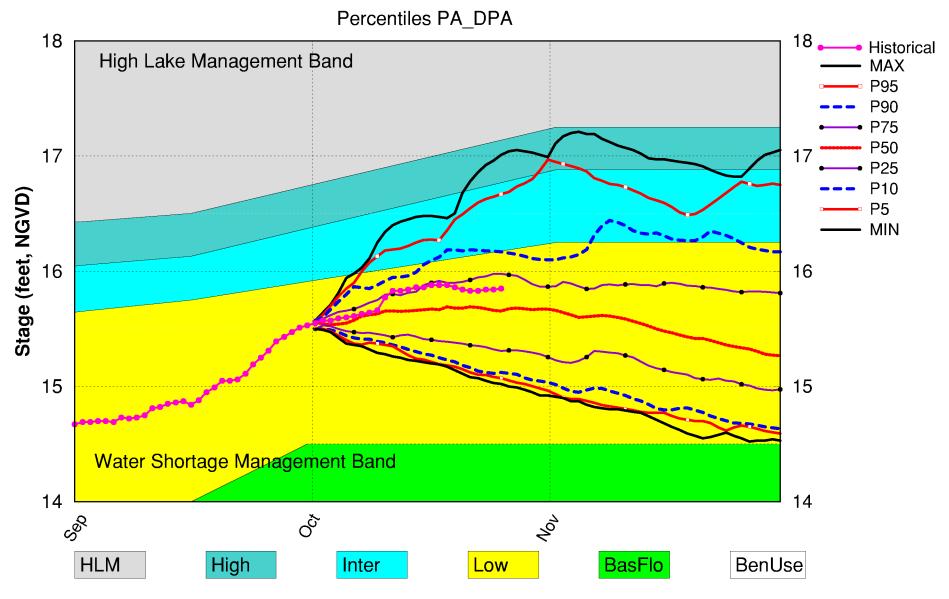
Status for week ending 10/25/2021:

Water Supply Risk Evaluation

Area	Indicator	Value	Color Coded Scoring Scheme	
	Projected LOK Stage for the next two months	Low Sub-band	L	
	Palmer Drought Index for LOK Tributary Conditions	-2.73 (Extremely Dry)	Н	
	CPC Precipitation Outlook	1 month: Below Normal	M	
LOK	CPC Precipitation Outlook	3 months: Below Normal	M	
	LOK Seasonal Net Inflow Outlook	0.26 ft	M	
	ENSO Forecast	Dry		
	LOK Multi-Seasonal Net Inflow Outlook	0.12 ft		
	ENSO Forecast	Dry	Н	
	WCA 1: 3 Station Average (Sites 1-7, 1-8T and 1-9)	Above Line 1 (17.39 ft)	L	
WCAs	WCA 2A: Site 2-17	Above Line 1 (13.76 ft)	L	
	WCA-3A: 3 Station Average (Sites 63, 64, and 65)	Above Line 1 (10.44 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	

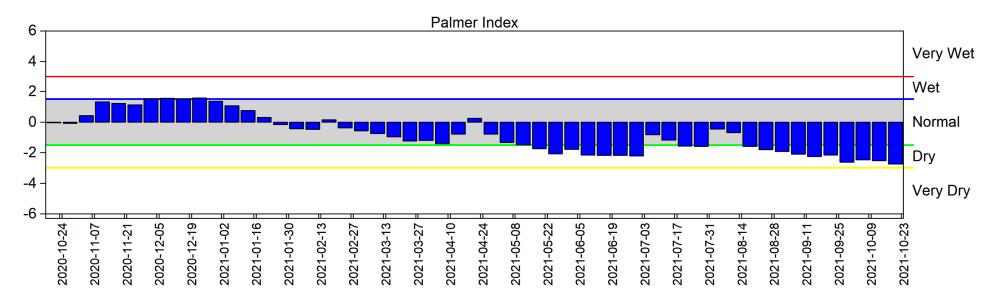
Note: The water supply risk classification based on the Palmer index, as well as the LOK seasonal and multi-seasonal net inflow outlooks use slightly different classification intervals than those used by the 2008-LORS.

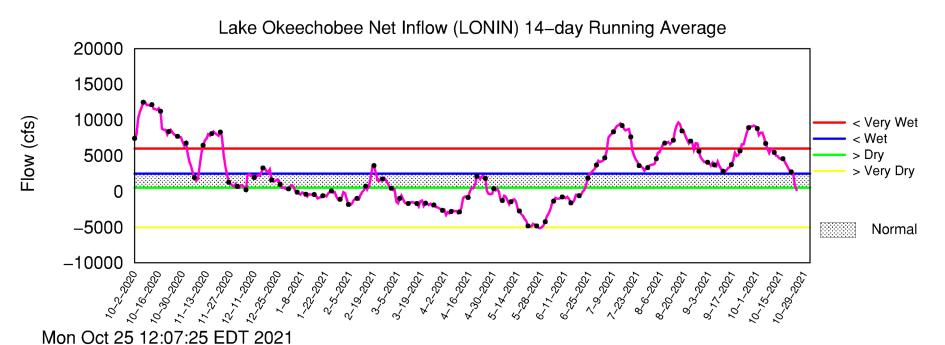
Lake Okeechobee SFWMM Oct 2021 Position Analysis



(See assumptions on the Position Analysis Results website)

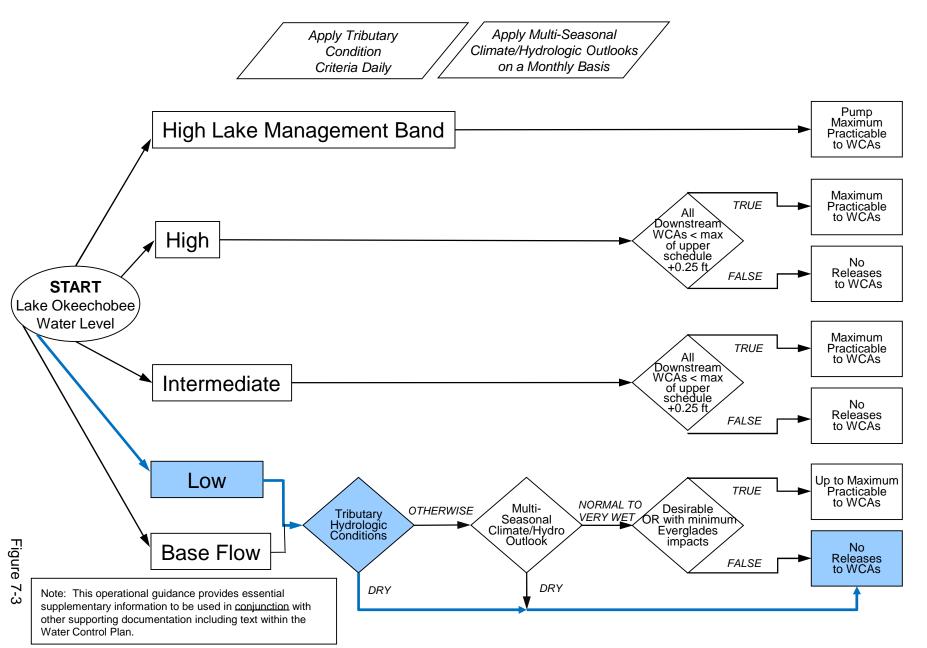
Tributary Basin Condition Indicators as of October 25 2021





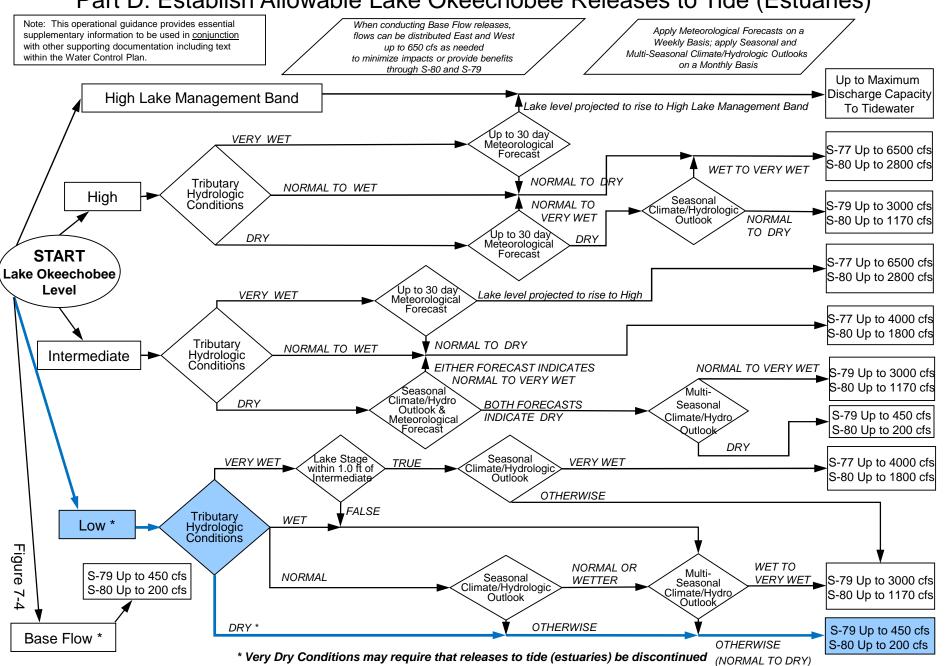
2008 LORS

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

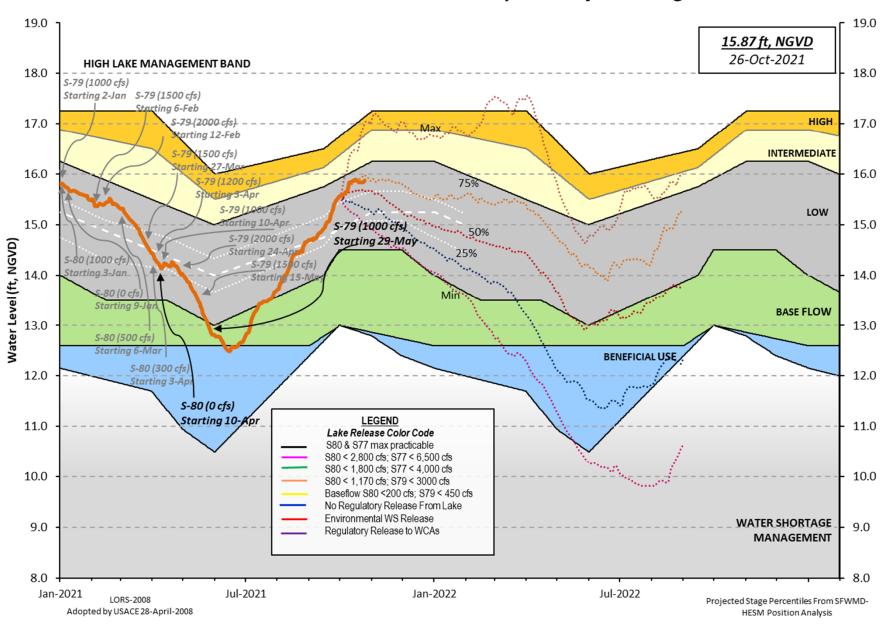


2008 LORS

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



Lake Okeechobee Water Level History and Projected Stages



Data Ending 2400 hours 24 OCT 2021

Evaporation - Precipitation:

Evaporation - Precipitation using Lake Area of 730 square miles

Okeechobee Lake Regulation Elevation Last Year 2YRS Ago (ft-NGVD) (ft-NGVD) (ft-NGVD) *Okeechobee Lake Elevation 15.85 16.35 13.48 (Official Elv) Bottom of High Lake Mngmt= 17.12 Top of Water Short Mngmt= 12.85 Currently in Operational Management Band Simulated Average LORS2008 [1965-2000] 14.02 Difference from Average LORS2008 1.83 240CT (1965-2007) Period of Record Average 15.07 Difference from POR Average 0.78 Today Lake Okeechobee elevation is determined from the 4 Int & 4 Edge stations ++Navigation Depth (Based on 2007 Channel Condition Survey) Route 1 ÷ 9.79' ++Navigation Depth (Based on 2008 Channel Condition Survey) Route 2 ÷ 7.99' Bridge Clearance = 49.04' 4 Interior and 4 Edge Okeechobee Lake Average (Avg-Daily values): L001 L005 L006 LZ40 S4 S352 S308 S133 15.83 15.88 15.84 15.82 15.86 15.93 15.83 15.77 *Combination Okeechobee Avg-Daily Lake Average = 15.85 (*See Note) Okeechobee Inflows (cfs): S65E 1710 S65EX1 0 Fisheating Cr 185 S154 44 S191 51 S135 Pumps 0 335 S2 Pumps S84 S133 Pumps 0 0 S84X S127 Pumps 0 S3 Pumps 34 a S71 0 S129 Pumps 0 S4 Pumps 0 S72 244 S131 Pumps 0 C5 0 Total Inflows: 2603 Okeechobee Outflows (cfs): S135 Culverts -NR-S354 0 S77 179 S127 Culverts 0 S351 0 S308 2 S129 Culverts 0 30 S352 S131 Culverts 0 L8 Canal Pt -NR-Total Outflows: 211 ****S77 structure flow is being used to compute Total Outflow. ****S308 structure flow is being used to compute Total Outflow. Okeechobee Pan Evaporation (inches): S77 0.00 S308 0.01 Average Pan Evap x 0.75 Pan Coefficient = 0.00" = 0.00' Lake Average Precipitation using NEXRAD: = -NR-" = -NR-"

		Tailwater Elevation				- Gat #3	e Pos #4	sition #5	ns #6	 #7	#8
		(ft-msl)									
	(1031)		I) see i				(10)	(10)	(10)	,	(10)
North East S	hore	\-	,								
S133 Pumps		15.88	0	0	0	0	0	0	(cfs))	
S193:	40.54	45.06	-4	0.0		0 0					
S191:	19.54	15.86	51 0	0.2 0	0.0 0	0.2	α		(c£c)		
S135 Pumps S135 Culve		15.77	-NR-	اط -NR-	_	О	0		(cfs)	,	
2133 Cuive	1 (5.		-1417	-1117	-1111/-						
North West S	hore										
S65E:	21.05	15.85	1710	0.6	0.6	0.6	1.3	0.6	1.3		
S65EX1:	21.05	15.85	0								
S127 Pumps	: 13.60	15.78	0	0	0	0	0	0	(cfs))	
S127 Culve	rt:		0	0.0							
S129 Pumps		15.83	0	0	0	0			(cfs))	
S129 Culve	rt:		0	0.0							
C121 D	. 12.04	15 02	0	0	•				(- C -)		
S131 Pumps S131 Culve		15.82	0 0	0	0				(cfs))	
SISI CUIVE	1.0.		О								
Fisheating	Creek										
nr Palmd		31.55	185								
nr Lakep											
C5:		-NR-	0	-NF	RNR	:NF	} –				
South Shore											
S4 Pumps:	11.72	15.83	0		0	0			(cfs))	
S169:		- NR -	-NR-	-NR -	-NR-	-NR -					
S310:	15.77		86	_	_	_			, ,		
S3 Pumps:	9.81	15.81	0	0	0	0			(cfs))	
S354:	15.81	9.81	0	0.0		ND	ND		(- C - \		
S2 Pumps: S351:	10.14 -NR-	-NR-	0		-NR-	0.0	-NK-		(cfs))	
S351: S352:	15.92	10.14 9.81	0 30	0.0	0.0 0.0	0.0					
C10A:	-NR-	15.88	36	8.0	8.0	8.	a (0.0	0.0		
L8 Canal P		13.66	-NR-	0.0	0.0	. 0.	. 0	0.0	0.0		
Lo Canai i			IVIX								
-	S35:	1 and S352	Tempora	ary Pun	ıps/S3	54 Sp	oillwa	эу			
			-								
S351:	10.14	-NR -		-NRN				-NR -			
S352:	9.81	15.92		-NRN							
S354:	9.81	15.81	0	-NRN	IR – – NR	NR-					
-											
Caloosahatch	ee River (577 S78 S	(79)								
S47B:	13.30	12.92	,, , ,	2.8	3.3						
S47D:	12.67	11.45	125	1.4	٠.,						
S77:	12.07		123	±•- -							
	and Secto	r Preferred	flow:								
,,	15.69	11.34		0.2).2 0	.2).2				
Flow Due	to Lockage	es+:	7								

Spillway and Sector Flow:

11.37 3.09 510 1.0 0.0 0.0 1.0

Flow Due to Lockages+: 14

S79:

Spillway and Sector Flow:

3.29 2.08 824 0.0 0.0 0.0 1.7 2.0 0.0 0.0 0.0

Flow Due to Lockages+: 5
Percent of flow from S77 21%
Chloride (ppm) 0

St. Lucie Canal (S308, S80)

S308:

Spillway and Sector Preferred Flow:

15.88 14.46 0 0.0 0.0 0.0 0.0

Flow Due to Lockages+: 2

S153: 18.71 14.10 27 0.1 0.0

S80:

Spillway and Sector Flow:

14.38 1.23 194 0.0 0.0 0.0 0.0 0.3 0.0 0.0

Flow Due to Lockages+: 21 Percent of flow from S308 0%

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)	(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:	2.17	2.17	2.17	186	3
S78:	0.14	0.14	0.14	227	2
S79:	-0.35	-0.35	-0.35	30	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:	0.13	0.18	0.18	104	4
S80:	0.04	0.74	0.74	166	1
Okeechobee Average	1.15	0.18	0.18		
(Sites S78, S79 and	S80 not ind	cluded)			
Oke Nexrad Basin Avg	-NR -	0.00	0.00		

240CT21	- 2	Days =	= 22	OCT	2021		15.84	-0.01
240CT21	- 3	Days =	= 21	OCT	2021		15.83	-0.02
240CT21	-4	Days =	= 20	OCT	2021		15.83	-0.02
240CT21		Days =		ОСТ	2021		15.84	-0.01
240CT21		Days =			2021		15.86	0.01
240CT21		Days =			2021		15.88	0.03
240CT21		-			2021		15.31	-0.54
		Year =			2021			
240CT21							16.35	0.50
240CT21	-2	Year =	= 24	UC I	2019		13.48	-2.37
Long Term	Moan	30day	Λυρορφο Ε΄	T for	n Lako	Alfnod (I	Inchos) -	_ ND _
Long Term	lean	Souay	Aveaige L	1 101	Lake	AITTEU (1	inches) =	- IVIX -
			Lake (الممر	chohoo	Not Infl	ow (LONIN)	
		٨٠	verage Flow					Avg-Daily Flow
240CT21	-	Today =			2021	466	MON	2370
		-						
240CT21		Day =			2021	1226	SUN	205
240CT21		Days =			2021	2915	SAT	2418
240CT21		Days =	= 21	OCT	2021	3052	FRI	429
240CT21		Days =	= 20	OCT	2021	3177	THU	-1813
240CT21		Days =	= 19	OCT	2021	3617	WED	-3976
240CT21	-6	Days =	= 18	OCT	2021	4056	TUE	-3942
240CT21		Days =			2021	4492	MON	0
240CT21		Days =			2021	4802	SUN	0
240CT21		Days =			2021	4802	SAT	4336
240CT21					2021	4802	FRI	0
240CT21					2021	5111	THU	4336
240CT21					2021		WED	2168
						5111		
240CT21	-13	Days =	= 11	UCI	2021	5576	TUE	0
			Avanaga		65E	nnovious	14 days	l Ava Daily Flow
2406724		T - J				previous	-	Avg-Daily Flow
240CT21		Today=			2021	1960	MON	1872
240CT21		Day =			2021	1977	SUN	1888
240CT21		Days =			2021	2009	SAT	1740
240CT21		Days =			2021	2049	FRI	1880
240CT21		Days =			2021	2061	THU	1916
240CT21	- 5	Days =	= 19	OCT	2021	2101	WED	1992
240CT21	-6	Days =	= 18	OCT	2021	2139	TUE	2017
240CT21	-7	Days =	= 17	OCT	2021	0477	MON	
240CT21	-8	Days =	_ 16			2177	MON	2045
240CT21	0		10	OCT	2021			
	-9	Davs =	= 15	OCT OCT	2021 2021	2233	SUN	2069
240CT21	-10	Davs =	= 15	0CT	2021	2233 2290	SUN SAT	2069 2051
240CT21	-10	Days =	= 15	0CT	2021	2233 2290 2345	SUN SAT FRI	2069 2051 2042
240CT21	-10	Days =	= 15	0CT	2021	2233 2290 2345 2429	SUN SAT FRI THU	2069 2051 2042 2058
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240CT21	-10 -11 -12	Days = Days = Days = Days =	= 15 = 14 = 13 = 12	0CT	2021	2233 2290 2345 2429	SUN SAT FRI THU	2069 2051 2042 2058
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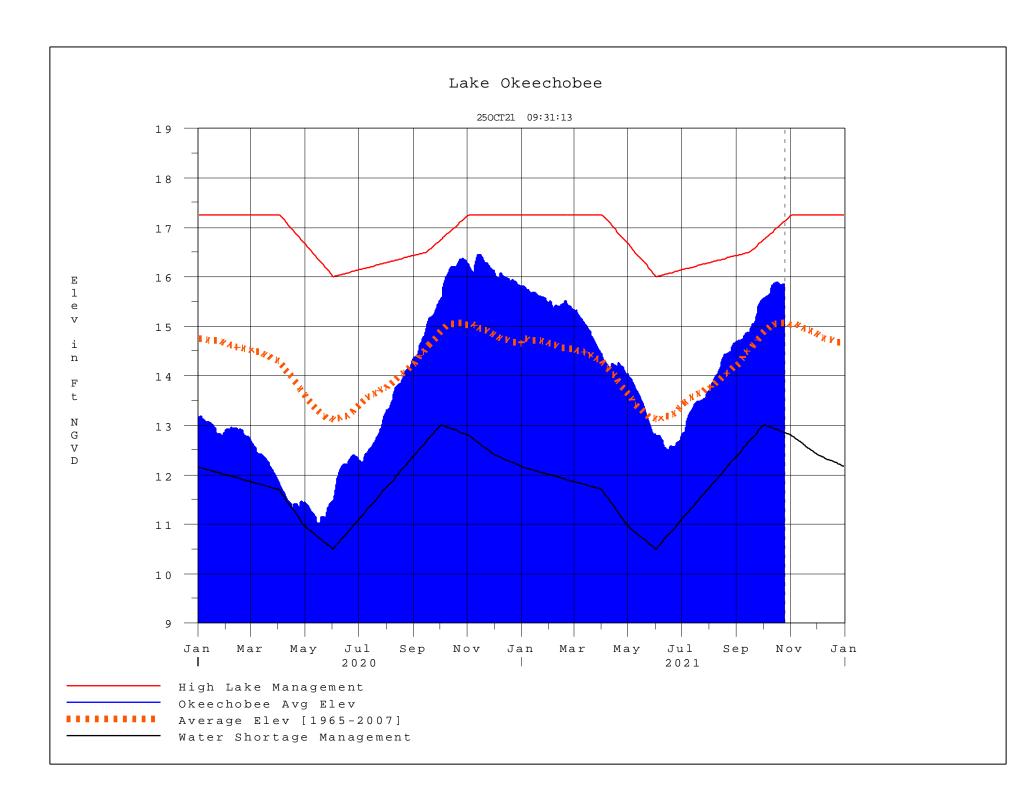
*** NOTE: Discharge (ALL DAY) is computed using Spillway, Sector Gate and Lockages Discharges from 0015 hrs to 2400 hrs.

⁽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 250CT2021 @ 09:52 ** Preliminary Data - Subject to Revision **



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
	2000	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	Equivalent Depth**	Lake Okeechobee
[million acre-feet]	[feet]	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