Application of the Lake Okeechobee Regulation Schedule (LORS2008) on 10/18/2021 (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	0.99	Normal	0.40	Dry	0.37	Dry
Multi Seasonal (Oct-Apr)	N/A	N/A	1.06	Dry	0.25	Dry	0.27	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:

4238 cfs 14-day running average for Lake Okeechobee Net Inflow through 10/18/2021. According to the classification in <u>Tributary Hydrologic Conditions</u> table, this condition is Wet.

-2.52 for Palmer Drought Index on 10/16/2021.

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

The wetter of the two conditions above is Wet.

LORS2008 Classification Tables:

Lake Okeechobee Stage on 10/18/2021:

Lake Okeechobee Stage: 15.88 feet

	ee Management /Band	Bottom Elevation (feet, NGVD)	Current Lake Stage
High Lake Manage	ement Band	17.01	
	High sub-band	16.64	
Operational Band	Intermediate sub-band	16.09	
	Low sub-band	14.50	← 15.88 ft
Base Flow sub-ba	nd	12.93	
Beneficial Use sub	o-band	12.89	
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 10/18/2021 (ENSO Condition- La Nina Watch):

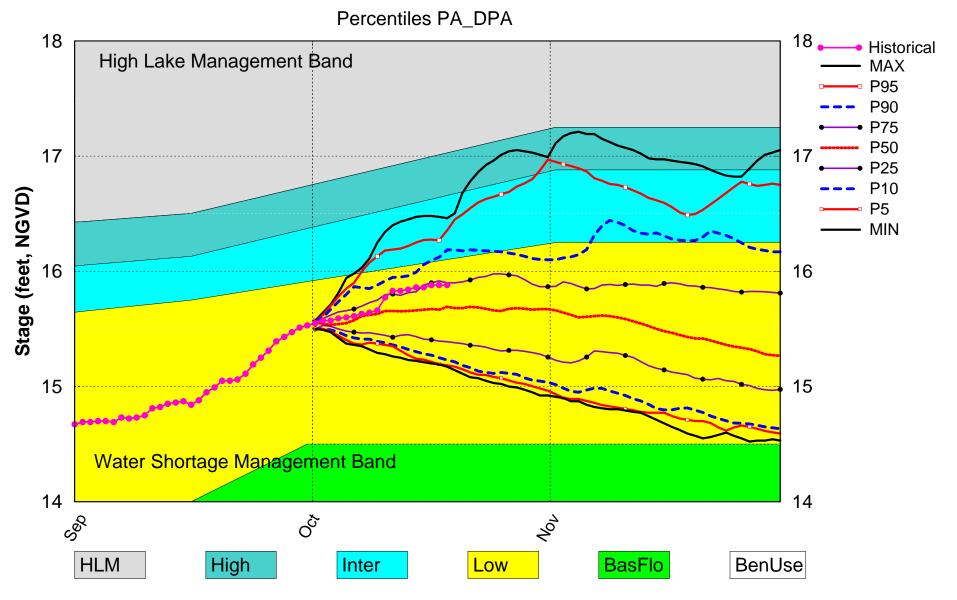
Status for week ending 10/18/2021:

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	-2.52 (Extremely Dry)	Н
	CPC Precipitation Outlook	1 month: Normal	L
LOK	CFC Frecipitation Outlook	3 months: Below Normal	M
	LOK Seasonal Net Inflow Outlook	0.40 ft	M
	ENSO Forecast	Dry	101
	LOK Multi-Seasonal Net Inflow Outlook	0.25 ft	
	ENSO Forecast	Dry	Н
	WCA 1: 3 Station Average (Site 1-7, 1-8T and 1-9)	Above Line 1 (17.42 ft)	L
WCAs	WCA 2A: Site 2-17	Above Line 1 (13.93 ft)	L
	WCA-3A: 3 Station Average (Site 63, 64 and 65)	Above Line 1 (10.53 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

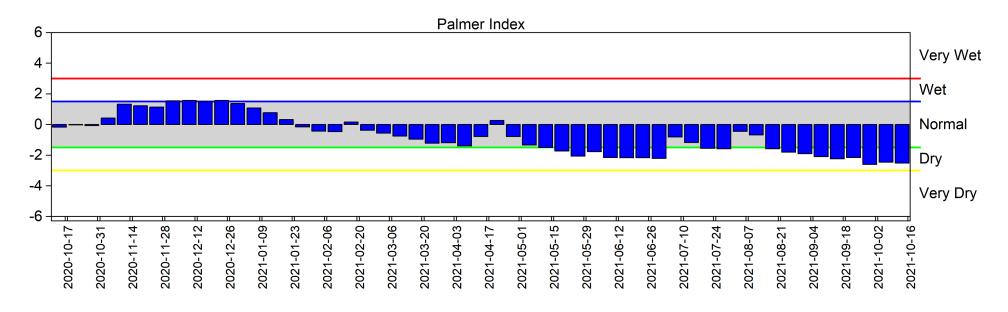
Note: The water supply risk classification based on the Palmer index, as well as the LOK seasonal and multi-seasonal net inflow outlooks use slightly different classification intervals than those used by the 2008-LORS.

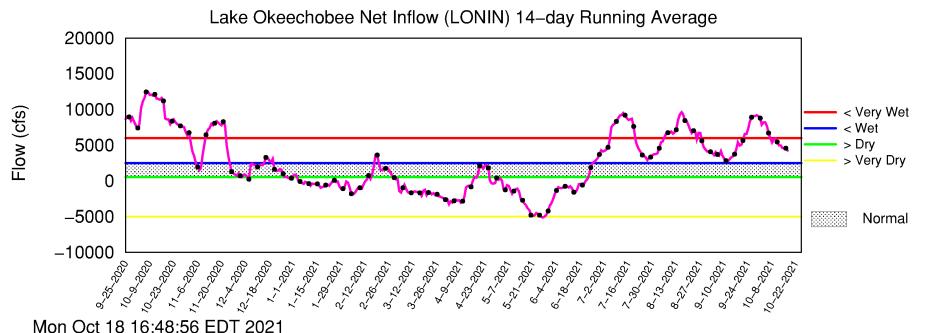
Lake Okeechobee SFWMM Oct 2021 Position Analysis



(See assumptions on the Position Analysis Results website)

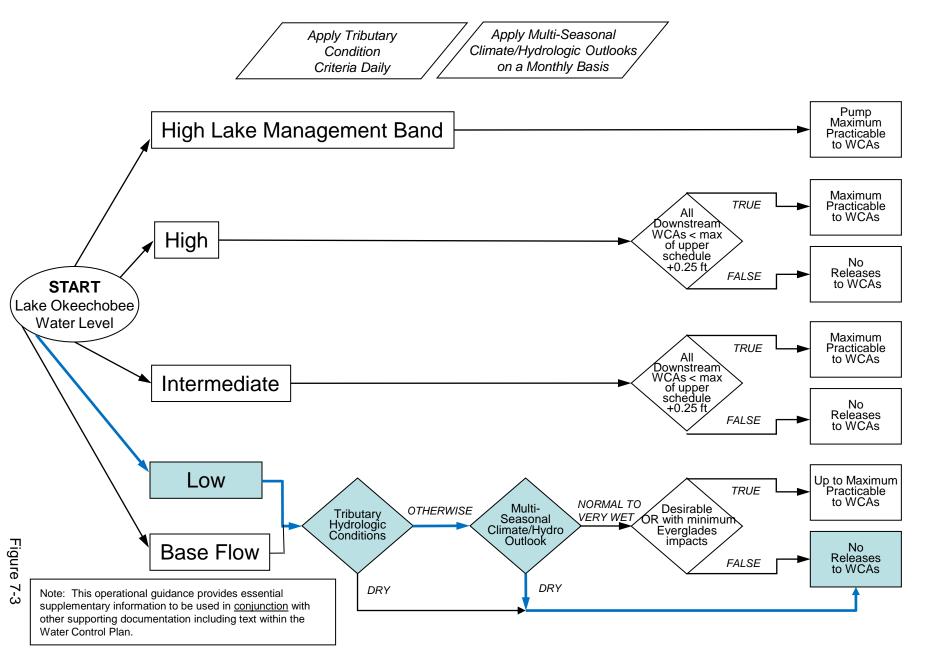
Tributary Basin Condition Indicators as of October 18 2021





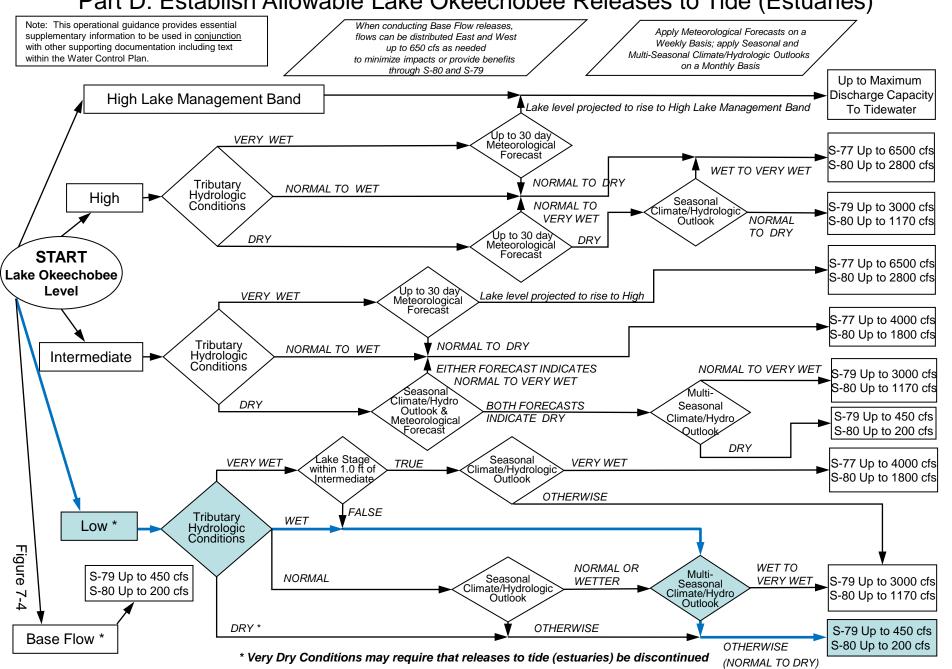
2008 LORS

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

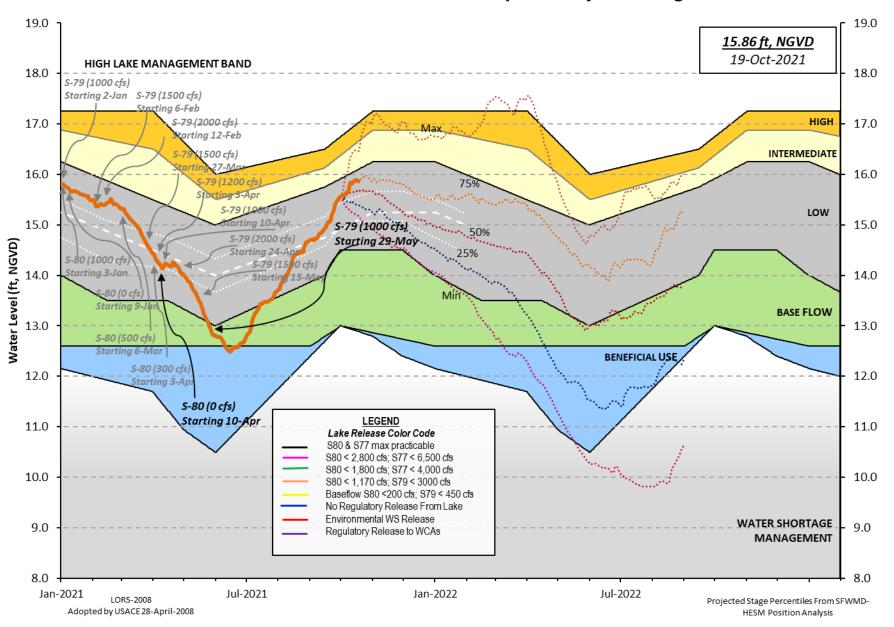


2008 LORS

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



Lake Okeechobee Water Level History and Projected Stages



Data Ending 2400 hours 17 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 15.88 16.21 13.42 (Official Elv) Bottom of High Lake Mngmt= 17.01 Top of Water Short Mngmt= 12.89 Currently in Operational Management Band Simulated Average LORS2008 [1965-2000] 13.98 Difference from Average LORS2008 1.90 170CT (1965-2007) Period of Record Average 15.05 Difference from POR Average 0.83 Today Lake Okeechobee elevation is determined from the 4 Int & 4 Edge stations ++Navigation Depth (Based on 2007 Channel Condition Survey) Route 1 ÷ 9.82' ++Navigation Depth (Based on 2008 Channel Condition Survey) Route 2 ÷ 8.02' Bridge Clearance = 49.11' 4 Interior and 4 Edge Okeechobee Lake Average (Avg-Daily values): L001 L005 L006 LZ40 S4 S352 S308 S133 15.77 15.90 15.91 15.87 15.95 16.00 15.85 15.68 *Combination Okeechobee Avg-Daily Lake Average = 15.88 (*See Note) Okeechobee Inflows (cfs): S65E 1875 S65EX1 0 Fisheating Cr 497 S154 81 S191 0 S135 Pumps 147 215 70 S2 Pumps S84 S133 Pumps a S84X 19 S127 Pumps 37 S3 Pumps a S71 53 S129 Pumps 0 S4 Pumps 0 S72 344 S131 Pumps 5 C5 0 Total Inflows: 3343 Okeechobee Outflows (cfs): S135 Culverts -NR-S354 0 S77 6 S127 Culverts 0 S351 0 S308 3 S129 Culverts 0 а S352 S131 Culverts 0 L8 Canal Pt -NR-Total Outflows: ****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 0.25 S308 0.25 Average Pan Evap x 0.75 Pan Coefficient = 0.19" = 0.02' Lake Average Precipitation using NEXRAD: = -NR-" = -NR-"

Elevation Elevation Disch #1 #2 #3 #4 #5 #6 #7 #8 (ft-ms1) (ft-ms1) (cfs) (ft) (ft) (ft) (ft) (ft) (ft) (ft) (ft		Headwater	Tailwater				- Gat	te Pos	sitio	าร	. -	
(I) see note at bottom North East Shore S133 Pumps: 13.31		Elevation	Elevation	Disch	#1	#2	#3	#4	#5	#6	#7	#8
(I) see note at bottom North East Shore S133 Pumps: 13.31		(ft-msl)	(ft-msl)	(cfs)	(ft)	(ft)	(ft)	(ft)	(ft)	(ft) (ft)	(ft)
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Signature	North East S	hore	·	•								
Signature	S133 Pumps	: 13.31	15.43	70	0	0	0	24	29	(cfs))	
Sign										(/		
Sil35 Pumps: 13.24 15.49 147 37 37 37 37 37 (cfs) Sil35 Culverts:NRNRNRNRNRNR- S65E: 21.13 15.34 1875 0.6 0.6 0.6 0.9 1.3 0.6 1.3 S65EX1: 21.13 15.34 0 S127 Pumps: 13.32 15.59 37 0 0 41 0 0 (cfs) Sil27 Pumps: 13.09 15.82 0 0 0.0 (cfs) Sil29 Pumps: 13.09 15.82 0 0 0.0 (cfs) Sil29 Culvert: 0 0.0 (cfs) Sil31 Pumps: 12.74 15.86 5 0 6 (cfs) Sil31 Pumps: 12.74 15.86 5 0 6 (cfs) Sil31 Culvert: 0 0 0.0 (cfs) Sil31 Pumps: 12.74 15.86 5 0 6 0 0 0 0 0 (cfs) Sil31 Pumps: 12.74 15.86 5 0 6 0 0 0 0 0 0 0 (cfs) Sil31 Pumps: 12.74 15.86 5 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		19 17	15 43	а	a a	-NR-	a a					
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S131 Pumps: 12.74	•		15.02			Ū	Ü			(013)	,	
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Fisheating Creek nr Palmdale nr Lakeport C5: -NR- 0 -NRNRNR- South Shore S4 Pumps: 11.28 16.20 0 0 0 0 0 (cfs) S169: S310: 16.22 91 S3 Pumps: 9.58 16.31 0 0 0 0 0 (cfs) S354: 16.31 9.58 0 0.0 0.0 S2 Pumps: 9.59 -NR- S2 Pumps: 9.59 -NR- S310: 16.31 9.58 0 0.0 0.0 S2 Pumps: 9.59 -NR- S351: -NR- 9.59 0 0.0 0.0 0.0 S351: -NR- S352: 15.99 9.55 0 0.0 0.0 C10A: -NR- L8 Canal PT -NR- S351 and S352 Temporary Pumps/S354 Spillway S351: 9.59 -NR- O -NRNRNRNRNRNR- S352: 9.55 15.99 0 -NRNRNRNRNR- S354: 9.58 16.31 0 -NRNRNRNRNR- S354: 9.59 15.99 0 -NRNRNRNRNR- S354: 9.58 16.31 0 -NRNRNRNRNR- S354: 9.58 16.31 0 -NRNRNRNRNR- S354: 9.58 16.31 1.0 1.0 S47B: 13.05 12.31 1.0 1.0 S47B: 13.05 12.31 1.0 1.0 S47D: 12.16 11.14 41 1.0 S77: Spillway and Sector Preferred Flow: 15.87 11.04 0 0.0 0.0 0.0 0.0	S131 Dumns	• 12 74	15 86	5	a	6				(cfs)		
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	Sbiiimaa				000							
LIOM DUE CO FOCKAĜEZ+: Q	Flare Dee-				0.0	0.0 E	ט.ט נ	0.0				
	LIOM DUE	to Lockage	C5+.	О								

Spillway and Sector Flow:

11.06 3.05 332 1.0 0.0 0.0 0.5

Flow Due to Lockages+: 7

S79:

Spillway and Sector Flow:

3.24 1.13 1482 0.0 0.0 0.0 2.5 3.0 0.0 0.0 0.0

Flow Due to Lockages+: 9
Percent of flow from S77 0%
Chloride (ppm) 0

St. Lucie Canal (S308, S80)

S308:

Spillway and Sector Preferred Flow:

15.82 14.39 0 0.0 0.0 0.0 0.0

Flow Due to Lockages+: 3

S153: 19.09 14.06 28 0.1 0.0

S80:

Spillway and Sector Flow:

14.33 1.98 225 0.0 0.0 0.0 0.5 0.0 0.0 0.0

Flow Due to Lockages+: 24
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
Daily 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:	0.00	0.00	0.31	44	9
S78:	0.00	0.00	0.00	23	4
S79:	-0.64	-0.64	-0.64	336	8
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	0.52	105	4
S80:	0.00	0.07	1.03	71	2
Okeechobee Average	0.00	0.00	0.06		
(Sites S78, S79 and	S80 not inc	cluded)			
Oke Nexrad Basin Avg	-NR-	0.00	0.00		

Okeechobee Lake Elevations 17 OCT 2021 15.88 Dif

170CT21 - 2	Days =	15 OCT 2021	15.88	0.00
170CT21 -3		14 OCT 2021	15.86	-0.02
170CT21 -4		13 OCT 2021	15.86	-0.02
170CT21 -5		12 OCT 2021	15.84	-0.04
170CT21 -6		11 OCT 2021	15.83	-0.05
170CT21 -7		10 OCT 2021	15.83	-0.05
170CT21 -30		17 SEP 2021	14.99	-0.89
170CT21 -1		17 OCT 2020	16.21	0.33
170CT21 -2		17 OCT 2019	13.42	-2.46
Long Term Mean	30day Avearg	e ET for Lake	Alfred (Inches) =	-NR-
			Net Inflow (LONIN)	
			previous 14 days	Avg-Daily Flow
	Today =	17 OCT 2021		0
	Day =	16 OCT 2021	4802 SUN	0
	Days =	15 OCT 2021	-	4336
	Days =	14 OCT 2021	4802 FRI	0
170CT21 -4		13 OCT 2021		4336
	Days =	12 OCT 2021	5111 WED	2168
170CT21 - 6		11 OCT 2021	5576 TUE	0
170CT21 -7		10 OCT 2021	6195 MON	13008
170CT21 -8		09 OCT 2021	5886 SUN	23847
170CT21 -9		08 OCT 2021	5421 SAT	4336
170CT21 -10	Days =	07 OCT 2021	6040 FRI	2175
	Days =		6814 THU	4345
	Days =		7743 WED	2168
170CT21 -13	Days =	04 OCT 2021	8362 TUE	2168
	A	S65E		Ave Deily Flav
170CT21		age Flow over	previous 14 days	Avg-Daily Flow
170CT21	Today=	16 OCT 2021	2177 MON	2047
	Day =	15 OCT 2021	2233 SUN 2290 SAT	2068
	Days = Days =	14 OCT 2021	2290 SAT 2345 FRI	2052
	-		=	2043
	Days =	13 OCT 2021 12 OCT 2021	-	2057 1960
	Days =	12 OCT 2021 11 OCT 2021		1905
170CT21 -6				
	Days = Days =	10 OCT 2021 09 OCT 2021	2776 MON 2894 SUN	2121 2337
	Days = Days =	08 OCT 2021	2894 SON 2986 SAT	2337
170CT21 -10		07 OCT 2021	3078 FRI	2048
170CT21 -10 170CT21 -11		06 OCT 2021	3147 THU	2476
170CT21 -11 170CT21 -12		05 OCT 2021	3147 THO 3184 WED	2525
170CT21 -12 170CT21 -13		04 OCT 2021	3234 TUE	2546
		0 + 0C1 2021	5257 TOL	2540

						Sé	55EX1				
					Average	Flov	v over	previous	14 days		Avg-Daily Flow
	170CT21		Today	/=	17	OCT	2021	0	MON		0
	170CT21	-1	Day	=	16	OCT	2021	0	SUN		0
	170CT21	-2	Days	=	15	OCT	2021	0	SAT		0
	170CT21	- 3	Days	=	14	OCT	2021	0	FRI		0
	170CT21	-4	Days	=	13	OCT	2021	0	THU		0
	170CT21	- 5	Days	=	12	OCT	2021	0	WED		0
1	170CT21	-6	Days	=	11	OCT	2021	0	TUE	ĺ	0
_	170CT21	- 7	Days	=	10	OCT	2021	0	MON	ĺ	0
	170CT21	-8	Days	=	09	OCT	2021	0	SUN		0
	170CT21	- 9	Days	=	98	OCT	2021	0	SAT		0
	170CT21	-10	Days	=	07	OCT	2021	0	FRI		0
	170CT21	-11	Days	=	06	OCT	2021	0	THU		0
1	170CT21	-12	Days	=	05	OCT	2021	0	WED		0
1	170CT21	-13	Days	=	04	OCT	2021	0	TUE		0

DATE 17 OCT 202: 16 OCT 202: 15 OCT 202: 14 OCT 202: 13 OCT 202: 11 OCT 202: 10 OCT 202: 09 OCT 202: 08 OCT 202: 06 OCT 202: 06 OCT 202: 04 OCT 202:	1 14 1 7 1 7 1 12 1 7 1 8 1 15 1 5 1 9 1 4	Below S-77 Discharge (ALL-DAY) (AC-FT) 50 256 30 124 257 152 77 84 224 217 -7 -74 -42	S-78 Discharge (ALL DAY) (AC-FT) 676 18 426 1260 1292 1196 1340 2165 1126 358 373 194 169 977	S-79 Discharge (ALL DAY) (AC-FT) 2945 2723 2469 5508 4383 7980 5737 7805 6032 4085 2979 3101 1805 4302	
DATE 17 OCT 202: 16 OCT 202: 15 OCT 202: 14 OCT 202: 13 OCT 202: 11 OCT 202: 10 OCT 202: 09 OCT 202: 08 OCT 202: 07 OCT 202: 06 OCT 202: 04 OCT 202:	1 213 1 6 1 3 1 4 1 8 1 5 1 8 1 94 1 5 1 3 1 4	S-351 Discharge (ALL DAY) (AC-FT) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S-352 Discharge (ALL DAY) (AC-FT) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	S-354 Discharge (ALL DAY) (AC-FT) 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	L8 Canal Pt Discharge (ALL DAY) (AC-FT) -NRNRNRNRNRNRNRNR
DATE 17 OCT 202: 16 OCT 202: 15 OCT 202: 14 OCT 202: 13 OCT 202: 11 OCT 202: 10 OCT 202: 09 OCT 202: 07 OCT 202: 06 OCT 202: 05 OCT 202: 04 OCT 202:	1 6 1 3 1 5 1 4 1 4 1 3 1 4 1 3 1 2 1 1	Below S-308 Discharge (ALL-DAY) (AC-FT) 92 -113 -83 -73 -44 134 -1 -66 -231 -245 -51 152 -87 -40	S S-80 Discharge (ALL-DAY) (AC-FT) 494 475 337 450 1057 951 1408 1749 762 30 34 15 222		

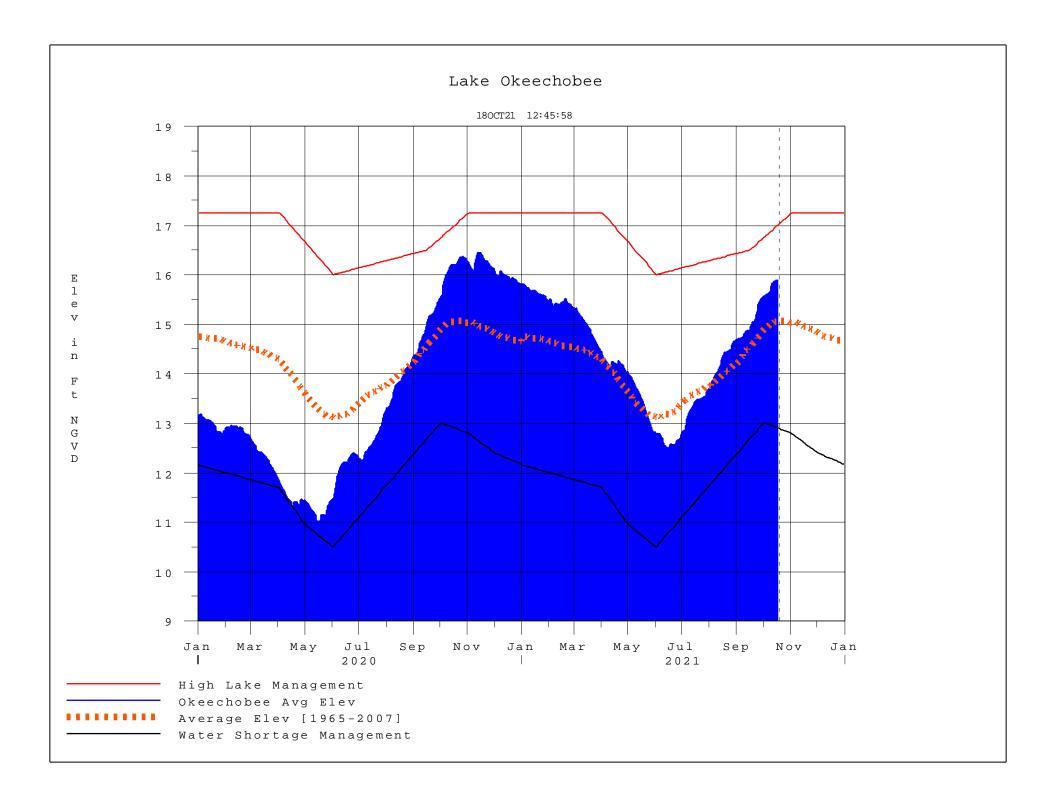
*** NOTE: Discharge (ALL DAY) is computed using Spillway, Sector Gate and Lockages Discharges from 0015 hrs to 2400 hrs.

⁽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
- ++ 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 180CT2021 @ 12:45 ** 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
	20003	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