

U. S. Army Corps of Engineers, Jacksonville District  
 Lake Okeechobee and Vicinity Report  
 \*\* Preliminary Data - Subject to Revision \*\*

Data Ending 2400 hours 26 NOV 2011

Okeechobee Lake Regulation	Elevation	Last Year	2YRS Ago
	(ft-NGVD)	(ft-NGVD)	(ft-NGVD)
*Okeechobee Lake Elevation	13.83	13.05	13.61 (Official Elv)
Bottom of High Lake Mngmt=	17.25	Top of Water Short Mngmt=	12.45
Currently in Operational Management Band			

Simulated Average LORS2008 [1965-2000]	13.81
Difference from Average LORS2008	0.02

26NOV (1965-2007) Period of Record Average	14.87
Difference from POR Average	-1.04

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

++Navigation Depth (Based on 2007 Channel Condition Survey) Route 1 ÷ 7.77'  
 ++Navigation Depth (Based on 2008 Channel Condition Survey) Route 2 ÷ 5.97'  
 Bridge Clearance = 49.78'

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

L001	L005	L006	LZ40	S4	S352	S308	S133
13.66	13.85	13.82	13.90	14.00	13.90	13.72	13.78

\*Combination Okeechobee Avg-Daily Lake Average = 13.83  
 (\*See Note)

Okeechobee Inflows (cfs):

S65E	1314	S191	52	Fisheating Cr	63
S154	11	S133 Pumps	0	S135 Pumps	0
S84	0	S127 Pumps	-NR-	S2 Pumps	0
S71	54	S129 Pumps	0	S3 Pumps	0
S72	33	S131 Pumps	0	S4 Pumps	0

Total Inflows: 1527

Okeechobee Outflows (cfs):

S135 Culverts	0	S354	0	S77	-NR- (Used)
S127 Culverts	0	S351	0	S77Below	27 (NOT USED)
S129 Culverts	0	S352	-NR-	S308	576 (NOT USED)
S131 Culverts		L8 Canal Pt	-NR-	S308Below	247 (Used)
C5	0				

Total Outflows: %TOTOUT+%

\*\*\*S77 Structure outflow is being used to compute Total Outflow.

\*\*\*S308 Below gage outflow is being used in place of S308 outflows.

Okeechobee Pan Evaporation (inches):

S77	0.26	S308	0.19
Average Pan Evap x 0.75 Pan Coefficient = 0.17" = 0.01'			

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

Evaporation - Precipitation: = -NR-" = -NR-'  
 Evaporation - Precipitation using Lake Area of 730 square miles  
 is equal to -NR-  
 Lake Okeechobee (Change in Storage) Flow is -2118 cfs or -4200 AC-FT

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Note: Headwater, tailwater, and stage values below are instantaneous values unless otherwise specified.

	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:	13.76	13.79	0	0	0	0	0	0	0		(cfs)
S193:											
S191:	19.50	13.75	52	0.0	0.0	0.1					
S135 Pumps:	13.53	13.66	0	0	0	0	0				(cfs)
S135 Culverts:			0	1.0	1.0						
North West Shore											
S65E:	20.94	13.67	1314	0.5	0.5	0.5	0.6	0.5	0.4		
S127 Pumps:	13.79	13.77	-NR-	0	-NR-	0	0	0			(cfs)
S127 Culvert:			0	0.0							
S129 Pumps:	13.31	13.91	0	0	0	0					(cfs)
S129 Culvert:			0	0.0							
S131 Pumps:	13.31	13.99	0	0	0						(cfs)
S131 Culvert:											
Fisheating Creek											
nr Palmdale		30.15	63								
nr Lakeport		14.03									
C5:	16.21	14.07	0	0.0	0.0	0.0					
South Shore											
S4 Pumps:	11.33	13.99	0	0	0	0					(cfs)
S169:	13.97	11.41	0	-NR-	0.0	0.0					
S310:	24.55		76								
S3 Pumps:	10.13	13.95	0	0	0	0					(cfs)
S354:	13.95	10.13	0	0.0	0.0						
S2 Pumps:	10.02	13.86	0	0	0	0	0				(cfs)
S351:	13.86	10.02	0	0.0	0.0	0.0					
S352:		-NR-	-NR-	-NR-	-NR-						
C10A:	-NR-	-NR-		-NR-	-NR-	7.0	-NR-	-NR-			
L8 Canal PT			-NR-								

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S351 and S352 Temporary Pumps/S354 Spillway

S351:	10.02	13.86	0	-NR-	-NR-	-NR-	-NR-	-NR-	-NR-		
S352:	-NR-		-NR-	-NR-	-NR-	-NR-	-NR-	-NR-			
S354:	10.13	13.95	0	-NR-	-NR-	-NR-	-NR-				

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Caloosahatchee River (S77, S78, S79)

S47B:	13.72	11.11		0.0	0.0						
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S47D: 11.10 11.10 -1 0.5  
S77:  
Spillway and Sector Flow:  
13.91 11.26 -NR- 0.0 0.0 0.0 0.0  
Flow Due to Lockages+: 5  
S77 Below USGS Flow Gage 27  
S78:  
Spillway and Sector Flow:  
11.14 2.99 0 0.0 0.0 0.0 0.0  
Flow Due to Lockages+: 15  
S79:  
Spillway and Sector Flow:  
3.15 0.70 313 0.0 0.0 0.0 0.0 1.0 0.0 0.0 0.0  
Flow Due to Lockages+: 15  
Percent of flow from S77 -NR-%  
Chloride (ppm) 43

St. Lucie Canal (S308, S80)

S308:  
Spillway and Sector Flow:  
13.73 13.72 576 2.5 2.5 2.5 0.0  
Flow Due to Lockages+: 0  
S308 Below USGS Flow Gage 247  
S153: 18.71 13.60 0 0.0 0.0  
S80:  
Spillway and Sector Flow:  
-NR- -NR- -NR- 0.0 0.0 0.0 0.0 0.0 0.0 0.0  
Flow Due to Lockages+: -NR-  
Percent of flow from S308 -NR-%

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.

Daily Precipitation Totals	1-Day (inches)	3-Day (inches)	7-Day (inches)	----- Wind -----	
				Direction (Degø)	Speed (mph)
S133 Pump Station:	-NR-	0.00	0.18		
S193:	-NR-	0.00	0.00	-NR-	-NR-
Okeechobee Field Station:	-NR-	0.00	0.00		
S135 Pump Station:	-NR-	0.00	0.23		
S127 Pump Station:	-NR-	0.00	0.28		
S129 Pump Station:	-NR-	0.00	0.09		
S131 Pump Station:	-NR-	0.00	0.04		
S77:	389.30	884.94	1090.87	272	3
S78:	0.00	0.00	0.69	88	4
S79:	0.00	-1.19	-1.03	84	5
S4 Pump Station:	-NR-	0.00	0.00		
Clewiston Field Station:	-NR-	0.00	0.07		
S3 Pump Station:	-NR-	0.00	0.08		

S2 Pump Station:	-NR-	0.00	0.11		
S308:	0.00	0.00	0.13	78	1
S80:	0.00	0.00	0.03	-NR-	-NR-
Okeechobee Average	194.65	68.07	84.01		
(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	26 NOV 2011	13.83	Difference from 26NOV11
26NOV11 -1 Day =	25 NOV 2011	13.84	0.01
26NOV11 -2 Days =	24 NOV 2011	13.85	0.02
26NOV11 -3 Days =	23 NOV 2011	13.87	0.04
26NOV11 -4 Days =	22 NOV 2011	13.87	0.04
26NOV11 -5 Days =	21 NOV 2011	13.85	0.02
26NOV11 -6 Days =	20 NOV 2011	13.83	0.00
26NOV11 -7 Days =	19 NOV 2011	13.82	-0.01
26NOV11 -30 Days =	27 OCT 2011	13.13	-0.70
26NOV11 -1 Year =	26 NOV 2010	13.05	-0.78
26NOV11 -2 Year =	26 NOV 2009	13.61	-0.22

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Long Term Mean 30day Avearge ET for Lake Alfred (Inches) = 2.47

Lake Okeechobee Net Inflow (LONIN)

Average Flow over the previous 14 days				Avg-Daily Flow
26NOV11 Today =	26 NOV 2011	-NR-	SUN	-NR-
26NOV11 -1 Day =	25 NOV 2011	-NR-	SAT	-NR-
26NOV11 -2 Days =	24 NOV 2011	-NR-	FRI	-NR-
26NOV11 -3 Days =	23 NOV 2011	-NR-	THU	-NR-
26NOV11 -4 Days =	22 NOV 2011	-NR-	WED	-NR-
26NOV11 -5 Days =	21 NOV 2011	-NR-	TUE	-NR-
26NOV11 -6 Days =	20 NOV 2011	-NR-	MON	-NR-
26NOV11 -7 Days =	19 NOV 2011	-NR-	SUN	-NR-
26NOV11 -8 Days =	18 NOV 2011	-NR-	SAT	-NR-
26NOV11 -9 Days =	17 NOV 2011	-NR-	FRI	-NR-
26NOV11 -10 Days =	16 NOV 2011	-NR-	THU	-NR-
26NOV11 -11 Days =	15 NOV 2011	-NR-	WED	-NR-
26NOV11 -12 Days =	14 NOV 2011	-NR-	TUE	-NR-
26NOV11 -13 Days =	13 NOV 2011	-NR-	MON	-NR-

S65E

Average Flow over previous 14 days				Avg-Daily Flow
26NOV11 Today=	26 NOV 2011	1659	SUN	1314
26NOV11 -1 Day =	25 NOV 2011	1751	SAT	1337
26NOV11 -2 Days =	24 NOV 2011	1853	FRI	1379
26NOV11 -3 Days =	23 NOV 2011	1956	THU	1388
26NOV11 -4 Days =	22 NOV 2011	2071	WED	1362
26NOV11 -5 Days =	21 NOV 2011	2246	TUE	1380
26NOV11 -6 Days =	20 NOV 2011	2405	MON	1658
26NOV11 -7 Days =	19 NOV 2011	2528	SUN	1840
26NOV11 -8 Days =	18 NOV 2011	2581	SAT	1880
26NOV11 -9 Days =	17 NOV 2011	2639	FRI	1952
26NOV11 -10 Days =	16 NOV 2011	2702	THU	1908
26NOV11 -11 Days =	15 NOV 2011	3074	WED	1916
26NOV11 -12 Days =	14 NOV 2011	3472	TUE	1932
26NOV11 -13 Days =	13 NOV 2011	3981	MON	1980

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Lake Okeechobee Outlets Last 14 Days

	S-77 Discharge (0700-2100) (AC-FT)	S-77 Discharge (ALL DAY) (AC-FT)	Below S-77 Discharge (ALL-DAY) (AC-FT)	S-78 Discharge (0700-2100) (AC-FT)	S-78 Discharge (ALL DAY) (AC-FT)	S-79 Discharge (ALL DAY) (AC-FT)
26 NOV 2011	-NR-	-NR-	54	0	31	650
25 NOV 2011	-NR-	-NR-	112	67	176	712
24 NOV 2011	-NR-	-NR-	79	71	119	-NR-
23 NOV 2011	-NR-	-NR-	85	0	28	524
22 NOV 2011	-NR-	-NR-	-147	0	21	226
21 NOV 2011	-NR-	-NR-	-213	0	21	306
20 NOV 2011	-NR-	-NR-	-27234	0	19	739
19 NOV 2011	-NR-	-NR-	-73564	0	21	519
18 NOV 2011	-NR-	-NR-	-73460	0	17	548
17 NOV 2011	94	-NR-	-72722	0	32	986
16 NOV 2011	170	270	-18115	0	27	563
15 NOV 2011	0	11	-105	0	32	13
14 NOV 2011	0	9	42	40	207	1630
13 NOV 2011	0	9	102	136	328	1963

	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)
26 NOV 2011	151	0	-NR-	0	-NR-
25 NOV 2011	150	0	-NR-	0	-NR-
24 NOV 2011	128	0	-NR-	0	-NR-
23 NOV 2011	71	0	-NR-	0	-NR-
22 NOV 2011	48	0	-NR-	0	-NR-
21 NOV 2011	40	0	-NR-	0	-NR-
20 NOV 2011	38	0	-NR-	0	-NR-
19 NOV 2011	81	0	-NR-	0	205
18 NOV 2011	179	0	-NR-	0	129
17 NOV 2011	231	0	-NR-	0	18
16 NOV 2011	169	0	-NR-	0	-41
15 NOV 2011	106	0	-NR-	0	-39
14 NOV 2011	116	0	-NR-	0	-20
13 NOV 2011	46	0	-NR-	0	-119

	S-308 Discharge (ALL DAY) (AC-FT)	Below S-308 Discharge (ALL-DAY) (AC-FT)	S-80 Discharge (ALL-DAY) (AC-FT)
26 NOV 2011	-NA-	490	-NR-
25 NOV 2011	-NA-	366	33
24 NOV 2011	-NA-	-208	15
23 NOV 2011	-NA-	63	35
22 NOV 2011	-NA-	342	45
21 NOV 2011	-NA-	360	33
20 NOV 2011	-NA-	425	61
19 NOV 2011	-NA-	617	50
18 NOV 2011	-NA-	40	29
17 NOV 2011	-NA-	92	31
16 NOV 2011	-NA-	318	62
15 NOV 2011	-NA-	428	42
14 NOV 2011	685	596	55
13 NOV 2011	655	-NR-	51

\*\*\* NOTE: 1) Discharge from (0700-2100) is computed using Spillway and Sector Gate Discharges from 0700 hrs to 2100 hrs.  
2) 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 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/Divisions/Operations/Branches/HydroSurvey/hydro.php>  
\$ For information regarding Lake Okeechobee Service Area water restrictions please refer to [www.sfwmd.gov](http://www.sfwmd.gov)

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