Application of the Lake Okeechobee Regulation Schedule (LORS2008) on 11/14/2016 (ENSO Neutral Condition)

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 Neutral years³ and a sub-sampling of warm years of the Atlantic Multi-decadal Oscillation (AMO) in combination with Neutral ENSO years⁴. The results for Croley's method and the SFWMD empirical method are based on the <u>CPC Outlook</u>.

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	Ci Me	roley's ethod ^{1*}	SFWMD Empirical Method ²		Sub-s La Ni Y	ampling of na ENSO rears ³	Sub-sampling of AMO Warm + La Nina ENSO Years ⁴	
	Value (ft)	Condition	Value (ft)	<u>Condition</u>	Value (ft)	Condition	Value (ft)	Condition
Current (Nov- Apr)	N/A	N/A	0.10	Dry	0.32	Dry	0.44	Dry
Multi Seasonal (Nov- Oct)	N/A	N/A	2.59	Wet	3.38	Wet	4.26	Wet

*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.

Tributary Hydrologic Conditions Graph:

-1168 cfs 14-day running average for Lake Okeechobee Net Inflow through 11/13/2016. According to the classification in <u>Tributary Hydrologic Conditions</u> table, this condition is Dry.

-0.47 for Palmer Index on 11/12/2016.

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

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

LORS2008 Classification Tables:

Lake Okeechobee Stage on 11/14/2016

Lake Okeechobee Stage: 15.15 feet

USACE Report for Lake Okeechobee

Lake Okeechobee Stage Hydrograph

Lake Okeechob Zone/	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	
	Low sub-band	14.50	← 15.15
Base Flow sub-ba	nd	12.81	
Beneficial Use sub	o-band	12.63	
Water Shortage M	anagement Band		

Part C of LORS2008: Discharge to WCA's

Release Guidance Flow Chart Outcome: Up to maximum practicable releases to the WCAs if desirable or with minimum everglades impacts; otherwise no releases.

Part D of LORS2008: Discharge to Tidewater

Release Guidance Flow Chart Outcome: S-79 up to 450 cfs and S-80 up to 200 cfs

Technical Input Summaries from:

- Lake Okeechobee Division
- Coastal Ecosystems
- Everglades Ecosystems Division
- Water Supply Department
- Water Resource Management Release Recommendation
- Kissimmee Watershed Environmental Conditions
- Operations Department

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LORS2008 Classification Tables:

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LORS2008 Implementation on 11/14/2016 (ENSO La Nina Condition):

Status for week ending 11/14/2016:

District wide, Raindar rainfall was 0.00 inches for the week. Lake stage on 11/14/2016 was 15.15 ft, down 0.15 ft from last week.

The updated November 2016 SFWMM Dynamic Position Analysis <u>percentile graph</u> for Lake Okeechobee show that the current lake stage is in the Low Operational Sub-Band.

The LORS2008 tributary <u>indices</u> are classified as **Normal**. The PDSI indicates normal condition and the LONIN is Dry. The classification is based on the wetter of the two.

Water Supply Risk Evaluation

Area	Indicator	Value	Color Coded Scoring Scheme
	Projected LOK Stage for the next two months	Low Sub-Band	L
	Palmer Index for LOK Tributary Conditions	-0.47 (Normal)	L
	CPC Procinitation Outlook	1 month: Below Normal	М
LOK	CFC Frecipitation Outlook	3 months: Below Normal	М
	LOK Seasonal Net Inflow Outlook ENSO Neutral Years	0.32 ft (Dry)	М
	LOK Multi-Seasonal Net Inflow Outlook	3.38 ft (Wet)	L
	WCA 1: Site 1-7, Site 1-8T, & Site 1-9 Average	Above Line 1 (16.74 ft)	L
WCAs	WCA 2A: Site 2-17 HW	Above Line1 (12.85 ft)	L
	WCA-3A: 3 Station Average (Site 63, 64 and 65)	Above Line 1 (10.30 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.

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Lake Okeechobee SFWMM Nov 2016 Dynamic Position Analysis



(See assumptions on the Position Analysis Results website)

Mon Nov 14 15:07:24 EST 2016



Tributary Basin Condition Indicators as of November 14 2016

Palmer Index

Mon Nov 14 15:06:00 EST 2016

Flow (cfs)

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



Adopted by USACE 28-April-2008

Projected Stage Percentiles From SFWMD-HESM Position Analysis

U. S. Army Corps of Engineers, Jacksonville District Lake Okeechobee and Vicinity Report ** Preliminary Data - Subject to Revision ** Data Ending 2400 hours 13 NOV 2016 Okeechobee Lake Regulation Elevation Last Year 2YRS Ago (ft-NGVD) (ft-NGVD) (ft-NGVD) *Okeechobee Lake Elevation 15.15 14.41 15.67 (Official Elv) Bottom of High Lake Mngmt= 17.25 Top of Water Short Mngmt= 12.63 Currently in Operational Management Band Simulated Average LORS2008 [1965-2000] 13.89 Difference from Average LORS2008 1,26 13NOV (1965-2007) Period of Record Average 14.96 Difference from POR Average 0.19 Today Lake Okeechobee elevation is determined from the 4 Int & 4 Edge stations ++Navigation Depth (Based on 2007 Channel Condition Survey) Route 1 ÷ 9.09' ++Navigation Depth (Based on 2008 Channel Condition Survey) Route 2 ÷ 7.29' Bridge Clearance = -NR-' 4 Interior and 4 Edge Okeechobee Lake Average (Avg-Daily values): L001 L005 L006 LZ40 S4 S352 S308 S133 15.01 15.19 15.13 15.13 15.21 15.29 15.12 15.08 *Combination Okeechobee Avg-Daily Lake Average = 15.15 (*See Note) Okeechobee Inflows (cfs): S65E 814 C5 -112 Fisheating Cr 16 0 S135 Pumps S154 0 S191 0 0 S84 0 S133 Pumps S2 Pumps 0 0 0 S84X S127 Pumps S3 Pumps 0 0 0 S71 0 S129 Pumps S4 Pumps S72 0 0 S131 Pumps Total Inflows: 718 Okeechobee Outflows (cfs): S135 Culverts 0 S354 507 S77 -NR-S127 Culverts 0 S351 839 S77Below 1063 S129 Culverts 0 S352 166 S308 -NR -S131 Culverts 0 L8 Canal Pt 229 S308Below 50 Total Outflows: No Report Due To Missing S77 or S308 Discharge Data

****S77 Structure outflow is being used to compute Total Outflow. ****\$308 Structure outflow is being used to compute Total Outflow. Okeechobee Pan Evaporation (inches): S77 -NR- S308 -NR-Average Pan Evap x 0.75 Pan Coefficient = -NR-" = -NR-' Lake Average Precipitation using NEXRAD: = 0.00" = 0.00' Evaporation - Precipitation: = -NR-" = -NR-' Evaporation - Precipitation using Lake Area of 730 square miles is equal to -NR-Lake Okeechobee (Change in Storage) Flow is -4336 cfs or -8600 AC-FT Note: Headwater, tailwater, and stage values below are instantaneous values unless otherwise specified. 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 15.09 0 0 0 0 0 0 (cfs) S133 Pumps: 13.48 S193: 0 0.0 0.0 0.0 S191: 18.30 15.06 S135 Pumps: 13.28 0 0 0 0 0 15.05 (cfs) 0.0 0.0 S135 Culverts: 0 North West Shore S65E: 20.92 14.88 814 0.4 0.4 0.4 0.4 0.4 0.4 S127 Pumps: 13.40 15.14 0 0 0 0 0 0 (cfs) S127 Culvert: 0 0.0 0 S129 Pumps: 12.97 15.19 0 0 0 (cfs) S129 Culvert: 0 0.0 S131 Pumps: 12.96 15.16 0 0 0 (cfs) S131 Culvert: 0 Fisheating Creek nr Palmdale 28.86 16 nr Lakeport C5: 15.16 15.23 -112 5.3 5.3 5.3 South Shore S4 Pumps:10.8115.160000S169:15.1310.8000.00.00.0 0 0 0 (cfs)

S310:	15.09		76							
S3 Pumps:	11.14	15.16	0	0	0	0			(cfs)
S354:	15.16	11.14	507	0.8	1.0					
S2 Pumps:	10.95	15.18	0	0	0	0	0		(cfs)
S351:	15.18	10.95	839	1.2	1.1	1.1				
S352:	15.29	10.84	166	0.3	0.2					
C10A:	-NR-	14.02		0.0	0.0	8.0	0	.0	0.0	
L8 Canal PI	1	13.85	229							
20 0011012 1 1		20100								
		and S352	2 Tempora	ary Pur	mps/S3	54 Spi	llwa	У		
s351:	10.95	15.18	839	-NR1	NRNR	NR	NR1	NR-		
S352:	10.84	15.29	166	-NR1	NRNR	NR-				
S354:	11.14	15.16	507	-NR1	NRNR	NR-				
Caloosahatche	e River (S		S79)							
S47B:	12.99	10.88	,	0.0	0.0					
S47D:	10.88	10 87	42	6 0						
S77:	10.00	10.07	14	0.0						
Spillway	and Sector	Flow:								
OFTTTWAY	-NR-	-NR-	–NR –	0.0	3.5 0	.0 0	0			
Flow Due	to Lockage	s+:	-NR-	5.0 .		••••••	~			
S// BEIOW C	SGS FIOW G	Jage	1002							
S78:										
Spillway	and Sector	FLOW:		0 0	0 0	0 0	1 -			
-1 -	-NR-	-NR-	-NR-	0.0	0.0	0.0	1.5			
Flow Due	to Lockage	25+:	-NR-							
S79:										
Spillway	and Sector	flow:								
	-NR-	-NR-	-NR-	0.0	0.0	0.0	0.5	1.0	1.0	0.
0.0										
Flow Due	to Lockage	es+:	-NR-							
Percent c	of flow fro	om S77	-NR-%							
Chloride		(ppm)	$-\mathbf{N}$							
St. Lucie Car	al (S308,	S80)								
S308:	. ,	-								
Spillway	and Sector	Flow:								
L ···-2	-NR-	-NR-	-NR-	0.0	0.0 1	.0 1.	0			
Flow Due	to Lockage	es+:	-NR-			•				
S308 Below	USGS Flow	Gage	50							
S153:	19.00	13.94	0	0.0	0.0					
S80:			Ŭ	5.5						
Spillway	and Sector	Flow:								
Obitimal	-NR-		-NP-	0 0	0 0	0 0	0 0	0 0	0 0	Ω
Flow Duo	to Lockac	1017		0.0	0.0	0.0	0.0	0.0	0.0	0
Porcont o	to LOCKAGE									
rercent C	T TTOM TLC	JUL 2300	-NK-2							
Steele Poir	it Top Sali	.nitv ((mq/ml) ;	* * * *						
Steele Poir	it Bottom S	Salinity ((mg/ml) ;	* * * *						
			· · · · · · · · · · · · · · · · · · ·							

tailwater along with tota a volume which is then co	number of onverted to	lockages fo an average d	r the day t ischarge in	co calcul n cfs.	ate
_				W	ind
-	1			Diana arti	
Daily Precipitation lotals Speed	I-Day	3-Day	7-Day	Directi	on
-	(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:	-NR-	0.00	0.00	-NR-	-NR-
S78:	-NR-	0.00	0.00	-NR-	-NR-
S79:	-NR-	0.00	0.00	-NR-	-NR-
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:	-NR-	0.00	0.00	-NR-	-NR-
S80:	-NR-	0.00	0.96	-NR-	-NR-
Okeechobee Average	-NR-	0.00	0.00		
(Sites S78, S79 and	S80 not inc	luded)			
Oke Nexrad Basin Avg	0.00	0.00	0.00		

+ Flow Due to lockages is computed utilizing average daily headwater and

Speedy Point Top Salinity (mg/ml) **** Speedy Point Bottom Salinity (mg/ml) ****

_								
Okeechobee	Lake	e Elev	vations	13	NOV	2016	15.15 Difference	from
13NOV16								
13NOV16	-1	Day	=	12	NOV	2016	15.17	0.02
13NOV16	-2	Days	=	11	NOV	2016	15.19	0.04
13NOV16	-3	Days	=	10	NOV	2016	15.21	0.06
13NOV16	-4	Days	=	09	NOV	2016	15.23	0.08
13NOV16	-5	Days	=	08	NOV	2016	15.25	0.10
13NOV16	-6	Days	=	07	NOV	2016	15.26	0.11
13NOV16	-7	Days	=	06	NOV	2016	15.30	0.15
13NOV16	-30	Days	=	14	OCT	2016	15.94	0.79
13NOV16	-1	Year	=	13	NOV	2015	14.41	-0.74
13NOV16	-2	Year	=	13	NOV	2014	15.67	0.52

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

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	La	ake Okee	chobee	Net Inflo	ow (LONIN)		
	Average	Flow ov	er the	previous	14 days	Avg-Daily	Flow
13NOV16 To	day =	13 NOV	2016	-1161	MON	-1535	
13NOV16 -1 D	ay =	12 NOV	2016	-812	SUN	-1493	
13NOV16 -2 D	ays =	11 NOV	2016	-768	SAT	-1332	
13NOV16 -3 D	ays =	10 NOV	2016	-780	FRI	-950	
13NOV16 -4 D	ays =	09 NOV	2016	-750	THU	-2098	
13NOV16 -5 D	ays =	08 NOV	2016	-796	WED	1409	
13NOV16 -6 D	ays =	07 NOV	2016	-990	TUE	-5110	
13NOV16 -7 D	ays =	06 NOV	2016	-860	MON	-1126	
13NOV16 -8 D	ays =	05 NOV	2016	-1110	SUN	-5177	
13NOV16 -9 D	ays =	04 NOV	2016	-948	SAT	107	
13NOV16 -10 D	ays =	03 NOV	2016	-790	FRI	1466	
13NOV16 -11 D	ays =	02 NOV	2016	-736	THU	-362	
13NOV16 -12 D	ays =	01 NOV	2016	-778	WED	148	
13NOV16 -13 D	ays =	31 OCT	2016	-790	TUE	-204	

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					Se	55E				
				Average	Flow	<i>v</i> over	previous	14 days	Avg-Daily Flo	W
13NOV16		Today	/=	13	NOV	2016	1005	MON	933	
13NOV16	-1	Day	=	12	NOV	2016	1019	SUN	971	
13NOV16	-2	Days	=	11	NOV	2016	1034	SAT	980	
13NOV16	-3	Days	=	10	NOV	2016	1047	FRI	974	
13NOV16	-4	Days	=	09	NOV	2016	1079	THU	928	
13NOV16	-5	Days	=	08	NOV	2016	1130	WED	981	
13NOV16	-6	Days	=	07	NOV	2016	1171	TUE	1026	
13NOV16	-7	Days	=	06	NOV	2016	1229	MON	1029	
13NOV16	-8	Days	=	05	NOV	2016	1299	SUN	1030	
13NOV16	-9	Days	=	04	NOV	2016	1389	SAT	1025	
13NOV16	-10	Days	=	03	NOV	2016	1482	FRI	1024	
13NOV16	-11	Days	=	02	NOV	2016	1583	THU	1019	
13NOV16	-12	Days	=	01	NOV	2016	1695	WED	1066	
13NOV16	-13	Days	=	31	OCT	2016	1813	TUE	1083	

_ 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	2	(AC-FT)	(AC-FT)	(AC-FT)	(AC-FT)
13	NOV	2016	-NR-	2107	-NR-	-NR-
12	NOV	2016	-NR-	1961	1085	1157
11	NOV	2016	-NR-	2158	851	1050
10	NOV	2016	-NR-	2186	710	1147
09	NOV	2016	1960	627	1059	1973
80	NOV	2016	2840	3236	5344	3136
07	NOV	2016	3282	4154	12925	2966
06	NOV	2016	3251	3984	2701	3471
05	NOV	2016	3722	4452	2923	4044
04	NOV	2016	4757	5400	3812	4212
03	NOV	2016	4463	5154	3819	4676
02	NOV	2016	4457	5458	4054	5115
01	NOV	2016	5039	6415	4557	5632

31	OCT	2016	5132	6466	4529	5990			
			S-310	S-351	S-352	S-354	L8 Canal	L Pt	
			Discharge	Discharge	Discharge :	Discharge	Discharg	je	
			(ALL DAY)	(ALL DAY)	(ALL DAY)	(ALL DAY)	(ALL DAY	Z)	
	DATE	C	(AC-FT)	(AC-FT)	(AC-FT)	(AC-FT)	(AC-FT)	1	
13	NOV	2016	150	1664	329	902	453		
12	NOV	2016	173	1814	524	894	445		
11	NOV	2016	140	1735	718	896	445		
10	NOV	2016	59	2076	1077	819	449		
09	NOV	2016	40	1826	980	557	447		
80	NOV	2016	67	1610	954	775	452		
07	NOV	2016	46	1297	734	385	463		
06	NOV	2016	127	1015	230	535	470		
05	NOV	2016	105	1323	52	599	450		
04	NOV	2016	77	1436	440	488	454		
03	NOV	2016	131	1352	773	997	449		
02	NOV	2016	78	1418	371	1134	455		
01	NOV	2016	51	1099	763	1138	449		
31	OCT	2016	9	1126	1697	992	448		
			S-308	Below S-308	S-80				
			Discharge	Discharge	Discharge				
			(ALL DAY)	(ALL-DAY)	(ALL-DAY)				
	DATE	C	(AC-FT)	(AC-FT)	(AC-FT)				
13	NOV	2016	-NR-	98	-NR-				
12	NOV	2016	268	-80	64				
11	NOV	2016	249	3	49				
10	NOV	2016	465	108	49				
09	NOV	2016	237	-58	56				
08	NOV	2016	6	65	39				
07	NOV	2016	3	31	28				
06	NOV	2016	4	130	28				
05	NOV	2016	8	54	54				
04	NOV	2016	938	592	503				
03	NOV	2016	3661	2778	1974				
02	NOV	2016	4201	3343	3148				
01	NOV	2016	4256	3326	2176				
31	OCT	2016	2096	1764	1900				
* * :	* N()TE:	Discha	rge (ALL DAY) is comput	ed using	Spillway,	Sector	Gate
and	ı		Lockag	es Discharge	s from 0015	hrs to 2	2400 hrs.		

(I) - Flows preceeded 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 14NOV2016 @ 13:40 ** 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

<u>6-15 Day Precipitation Outlook Categories</u>

Table ?? in the Lake Okeechobee Water Control Plan

<u>Classification of Lake Okeechobee Net Inflow for Seasonal</u>

<u>Outlook</u>

 Table K-3 in the Lake Okeechobee Water Control Plan

<u>Classification of Lake Okeechobee Net Inflow for Multi-</u>

Seasonal Outlook

 Table K-4 in the Lake Okeechobee Water Control Plan

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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

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