Application of the Lake Okeechobee Regulation Schedule (LORS2008) on 2/8/2016 (El Nino Condition)

Lake Okeechobee Net Inflow Outlook:

The Lake Okeechobee Net Inflow Outlook has been computed using 4 methods: Croley's method[1], the SFWMD empirical method[2], a sub-sampling of El Nino years[3] and a sub-sampling of warm years of the Atlantic Multi-decadal Oscillation (AMO) in combination with El Nino ENSO years[4]. 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 El Nino ENSO Years[3]		Sub-sampling of AMO Warm + El Nino ENSO Years[4]	
	Value (ft)	Condition	Value (ft)	Condition	Value (ft)	Condition	Value (ft)	Condition
Current (Feb-Jul)	N/A	N/A	1.49	Normal	1.81	Wet	2.88	Very Wet
Multi Seasonal (Feb-Oct)	N/A	N/A	3.25	Wet	3.66	Wet	5.60	Very Wet

*Croley's Method Not Produced For This Report

See Seasonal and Multi-Seasonal 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:

23309 cfs 14-day running average for Lake Okeechobee Net Inflow through 2/8/2016.
According to the classification in Tributary Hydrologic Conditions table, this condition is Very Wet.

1.34 for Palmer Index on 2/7/2016.
According to the classification in Tributary Hydrologic Conditions table, this condition is Normal.

The wetter of the two conditions above is **Very Wet**.

LORS2008 Classification Tables:

Lake Okeechobee Stage on 2/8/2016

Lake Okeechobee Stage: **16.40 feet**

USACE Report for Lake Okeechobee

Lake Okeechobee Stage Hydrograph

Lake Okeechobee Management Zone/Band		Bottom Elevation (feet, NGVD)	Current Lake Stage
High Lake Management Band		17.25	
Operational Band	High sub-band	16.72	
	Intermediate sub-band	16.94	← 16.40
	Low sub-band	13.59	
Base Flow sub-band		12.60	
Beneficial Use sub-band		11.96	
Water Shortage Management Band			

Part C of LORS2008: Discharge to WCA's

Release Guidance Flow Chart Outcome: No Releases to the WCAs

Part D of LORS2008: Discharge to Tidewater

Release Guidance Flow Chart Outcome: S-77 up to 6500 cfs and S-80 up to 2800 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**

Back to Lake Okeechobee Operations Main Page

Back to U.S. Army Corps of Engineers LORSS Homepage

LORS2008 Implementation on 2/8/2016 (ENSO El Nino Condition):

Water Supply Department Technical Input

Water Supply Outlook:

District wide, Raindar rainfall 0.94 inches for the week ending 2/9/2016. Lake stage on 2/8/2016 is 16.37 ft, up 0.23 ft from last week.
The updated January 2016 SFWMM Dynamic Position Analysis percentile graph and tracking chart for Lake Okeechobee show that the lake stage is in the Intermediate Operational Sub-Band.

The LORS2008 tributary indices are classified as **Very Wet**. The PDSI indicates normal condition and the LONIN is Very Wet. The classification is based on the wetter of the two.

Water Supply Risk Evaluation

Area	Indicator	Value	Color Coded Scoring Scheme
LOK	Projected LOK Stage for the next two months	*Low Flow Sub-Band	M
	Palmer Index for LOK Tributary Conditions	1.34 (Normal)	L
	CPC Precipitation Outlook	1 month: Above Normal	L
		3 months: Above Normal	L
	LOK Seasonal Net Inflow Forecast	1.81 ft (Normal to Extremely Wet)	L
	AMO warm/El Nino		
	LOK Multi-Seasonal Net Inflow Forecast	3.66 ft (Wet)	L
	AMO warm/El Nino		
WCAs	WCA 1: Site 1-7, Site 1-8T, & Site 1-9 Average	Above Line 1 (17.01 ft)	L
	WCA 2A: Site 2-17 HW	Above Line1 (14.39 ft)	L
	WCA-3A: 3 Station Average (Site 63, 64 and 65)	Above Line 1 (11.32 ft)	L
LEC	Service Area 1	Year-Round Irrigation Rule in effect	L
	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 forecasts use slightly different classification intervals than those used by the 2008-LORS for classifying the tributary hydrologic condition (THC).

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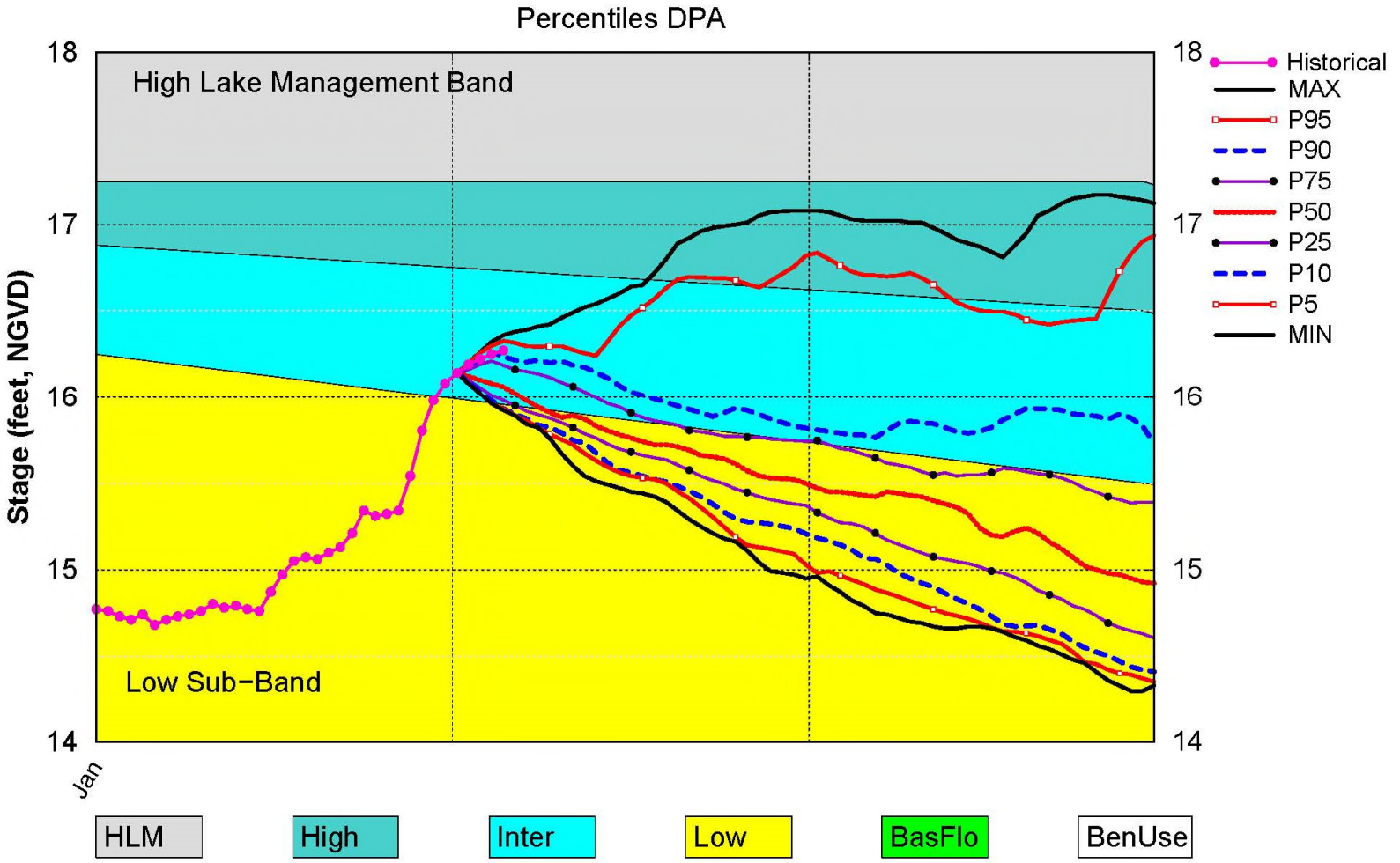
Lake Okeechobee SFWMM Feb 2016 Dynamic Position Analysis

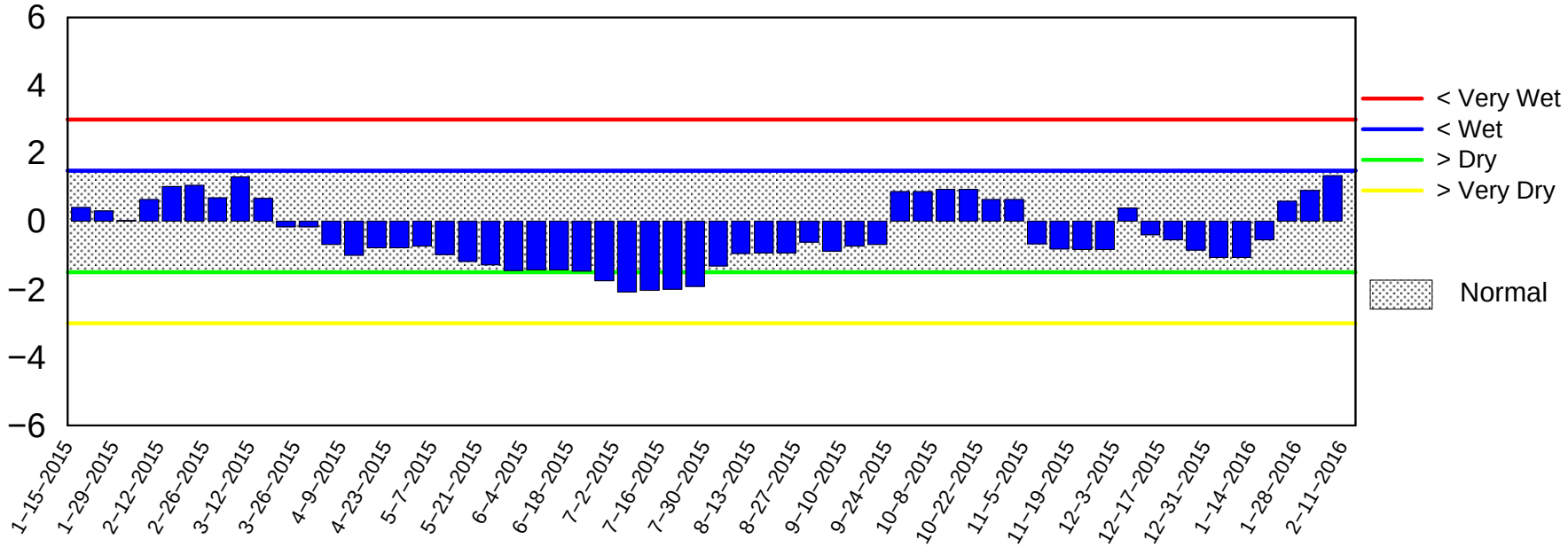


(See assumptions on the Position Analysis Results website)

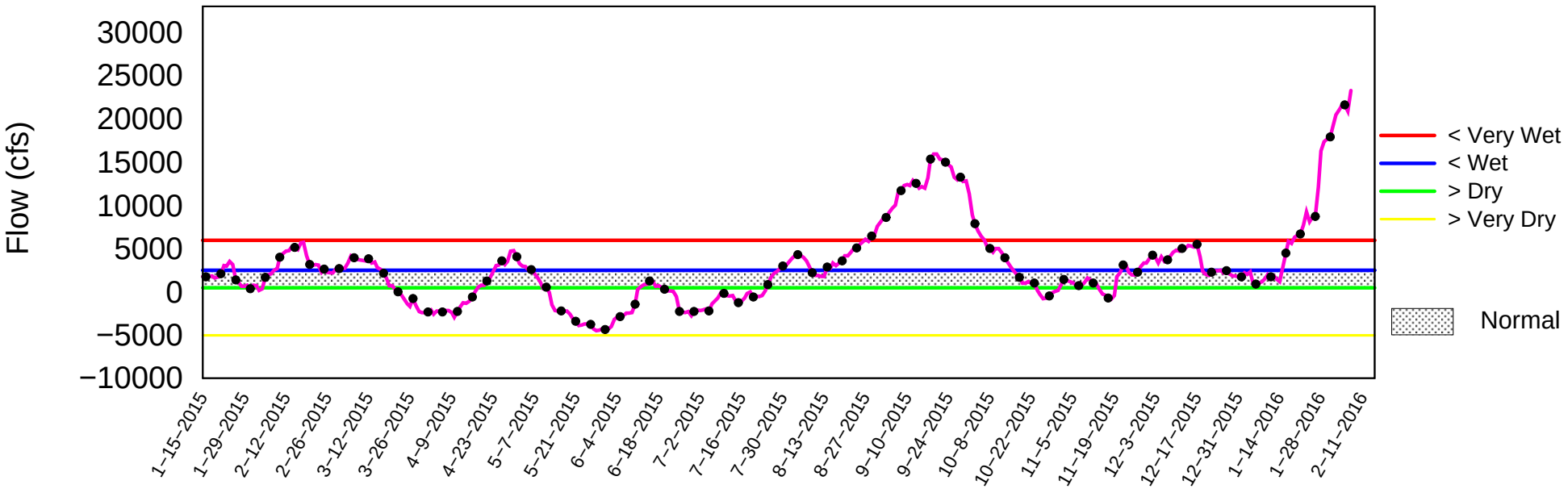
Fri Feb 5 12:09:39 2016

Tributary Basin Condition Indicators as of February 8 2016

Palmer Index



Lake Okeechobee Net Inflow (LONIN) 14−day Running Average



Mon Feb 08 18:43:55 EST 2016

2008 LORS

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

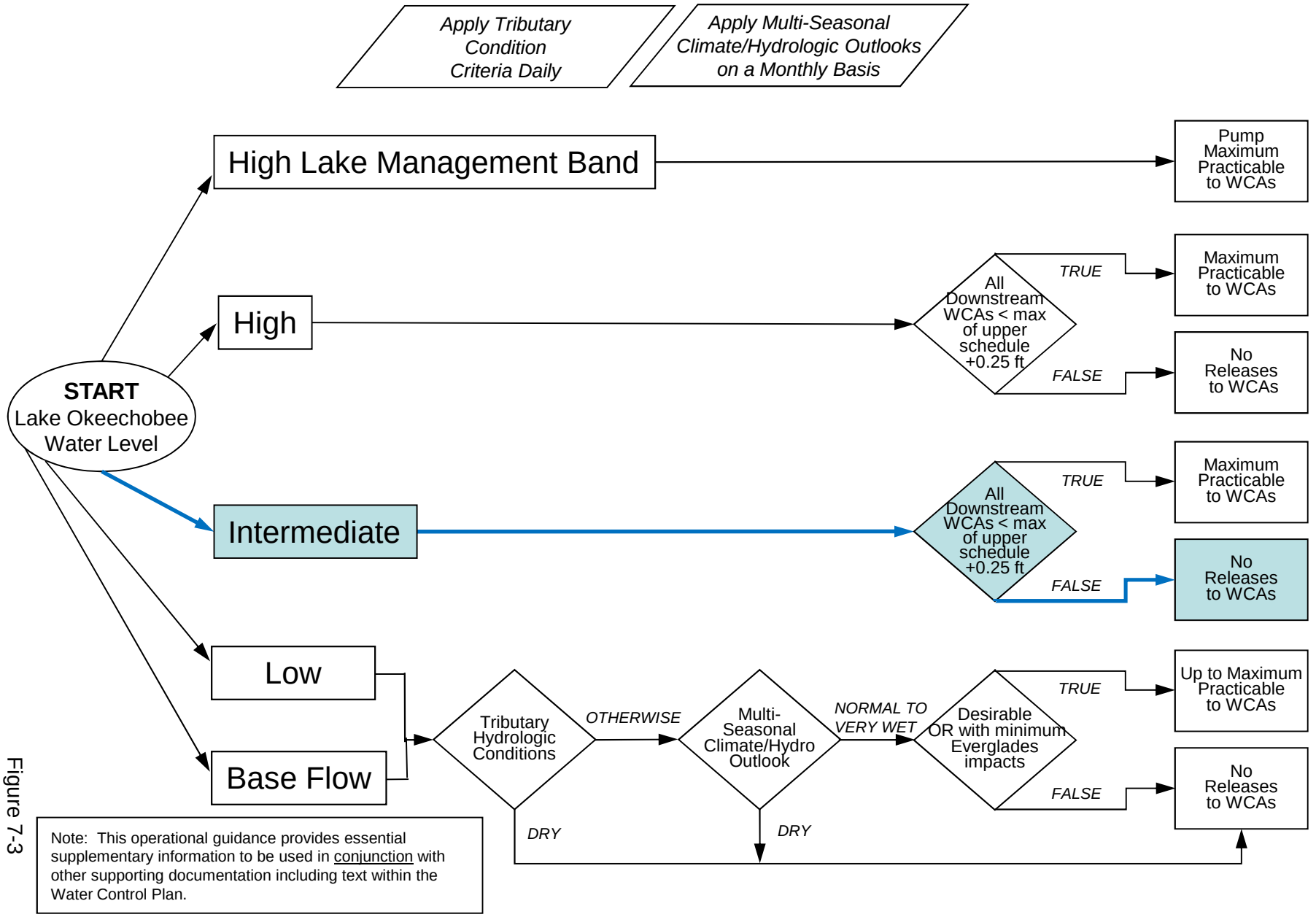


Figure 7-3

Note: This operational guidance provides essential supplementary information to be used in conjunction with other supporting documentation including text within the Water Control Plan.

2008 LORS

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

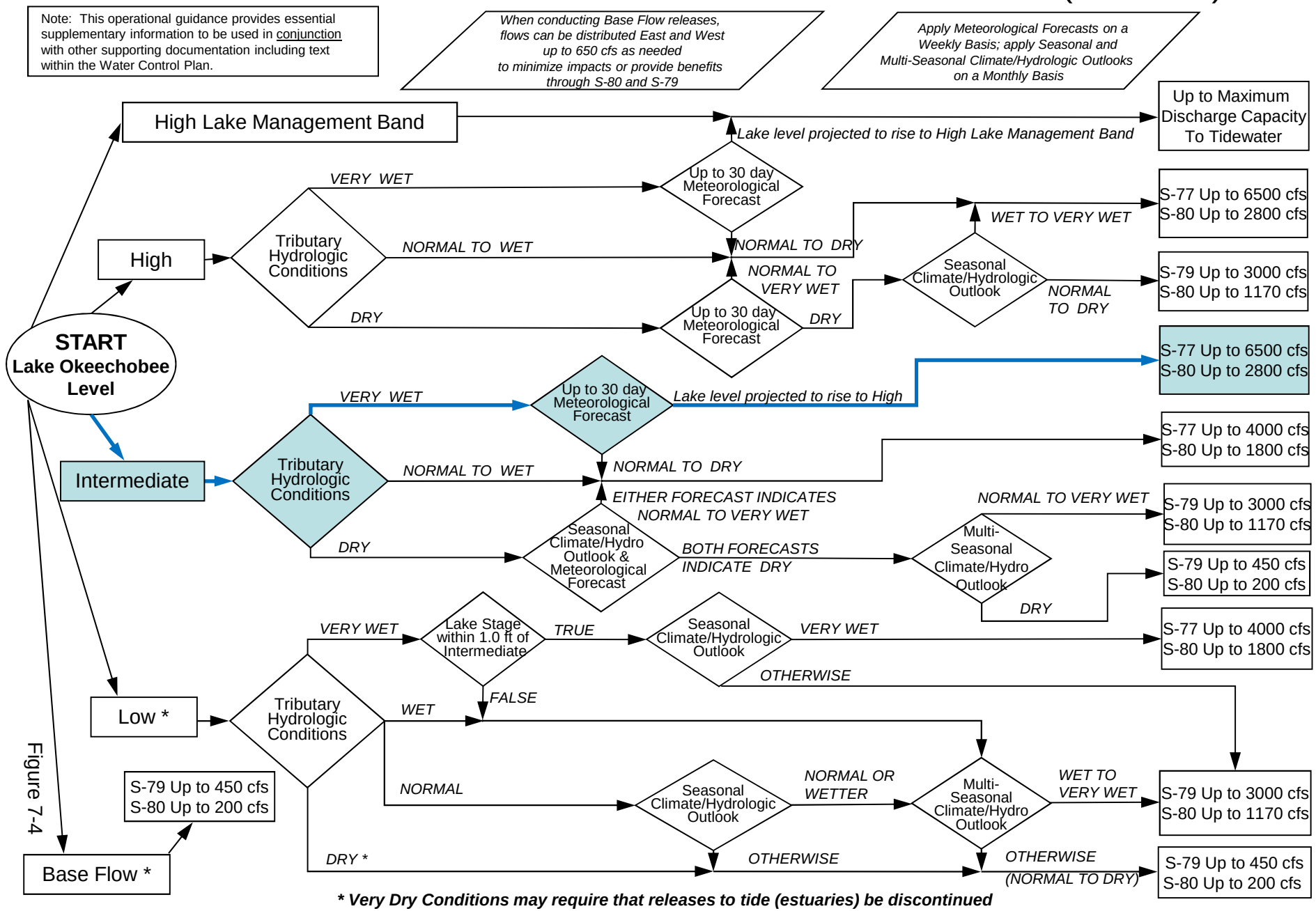


Figure 7-4

2008 LORS FORECAST

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

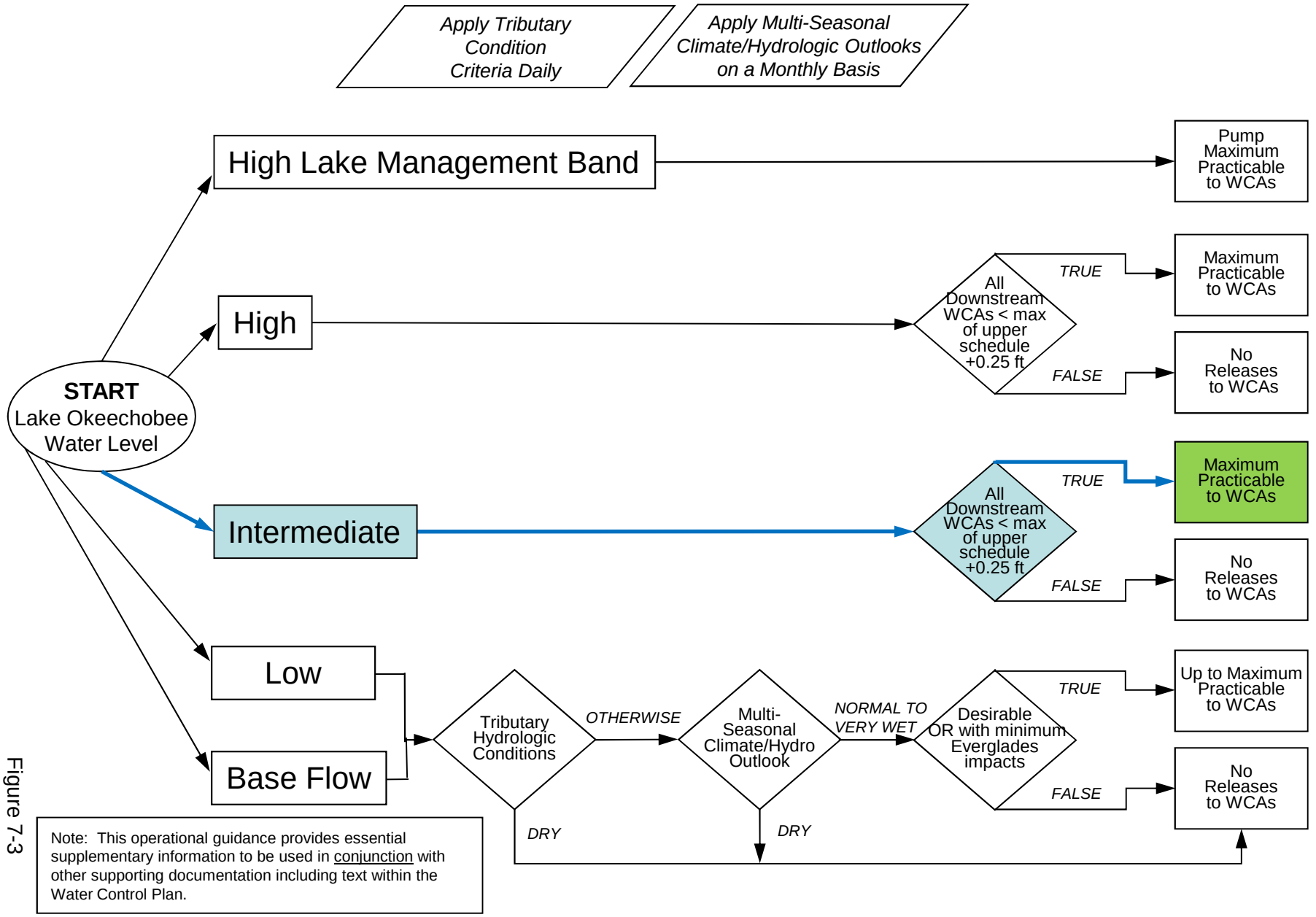


Figure 7-3

Note: This operational guidance provides essential supplementary information to be used in conjunction with other supporting documentation including text within the Water Control Plan.

2008 LORS FORECAST

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

Note: This operational guidance provides essential supplementary information to be used in conjunction with other supporting documentation including text within the Water Control Plan.

When conducting Base Flow releases, flows can be distributed East and West up to 650 cfs as needed to minimize impacts or provide benefits through S-80 and S-79

Apply Meteorological Forecasts on a Weekly Basis; apply Seasonal and Multi-Seasonal Climate/Hydrologic Outlooks on a Monthly Basis

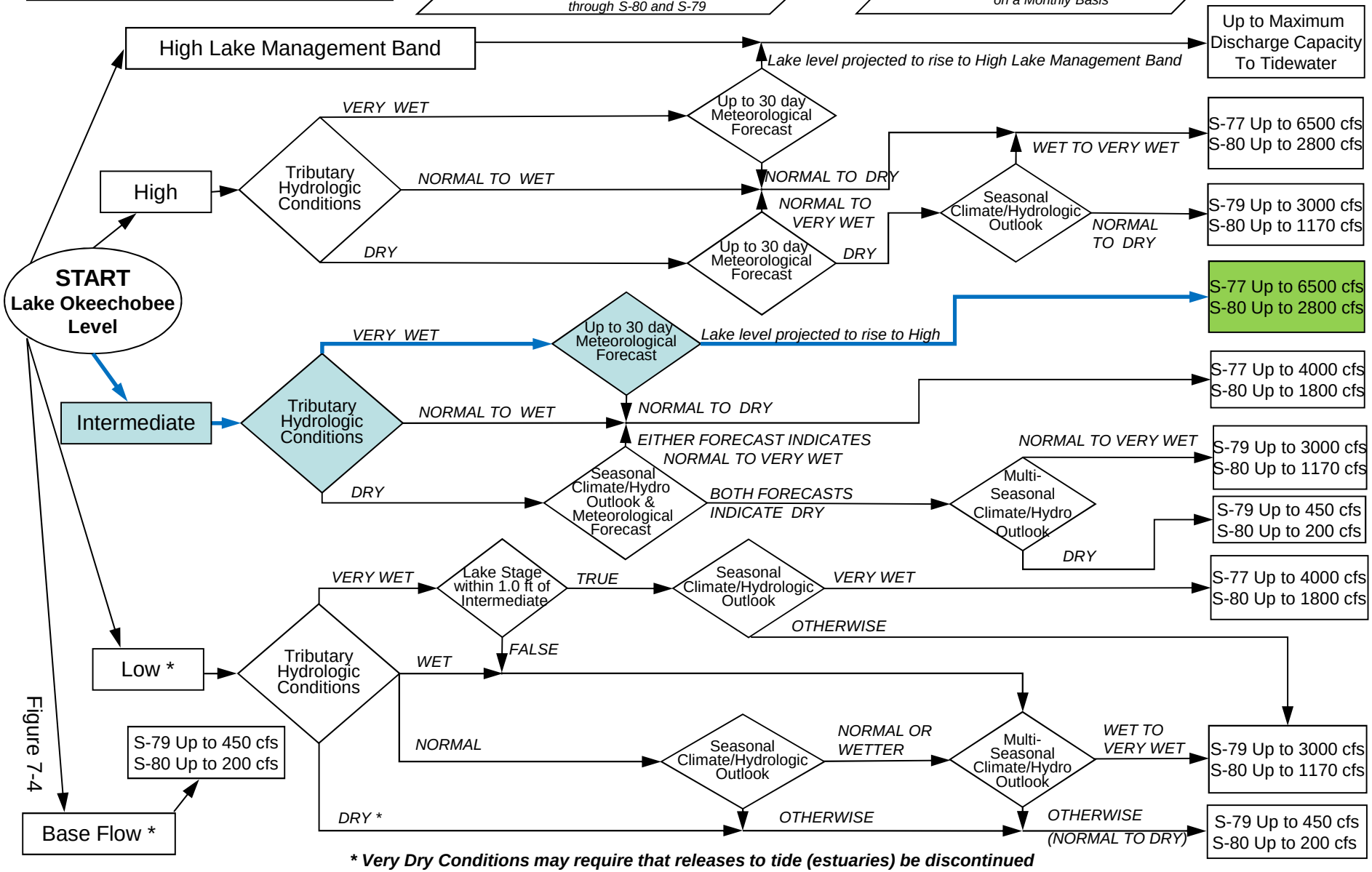
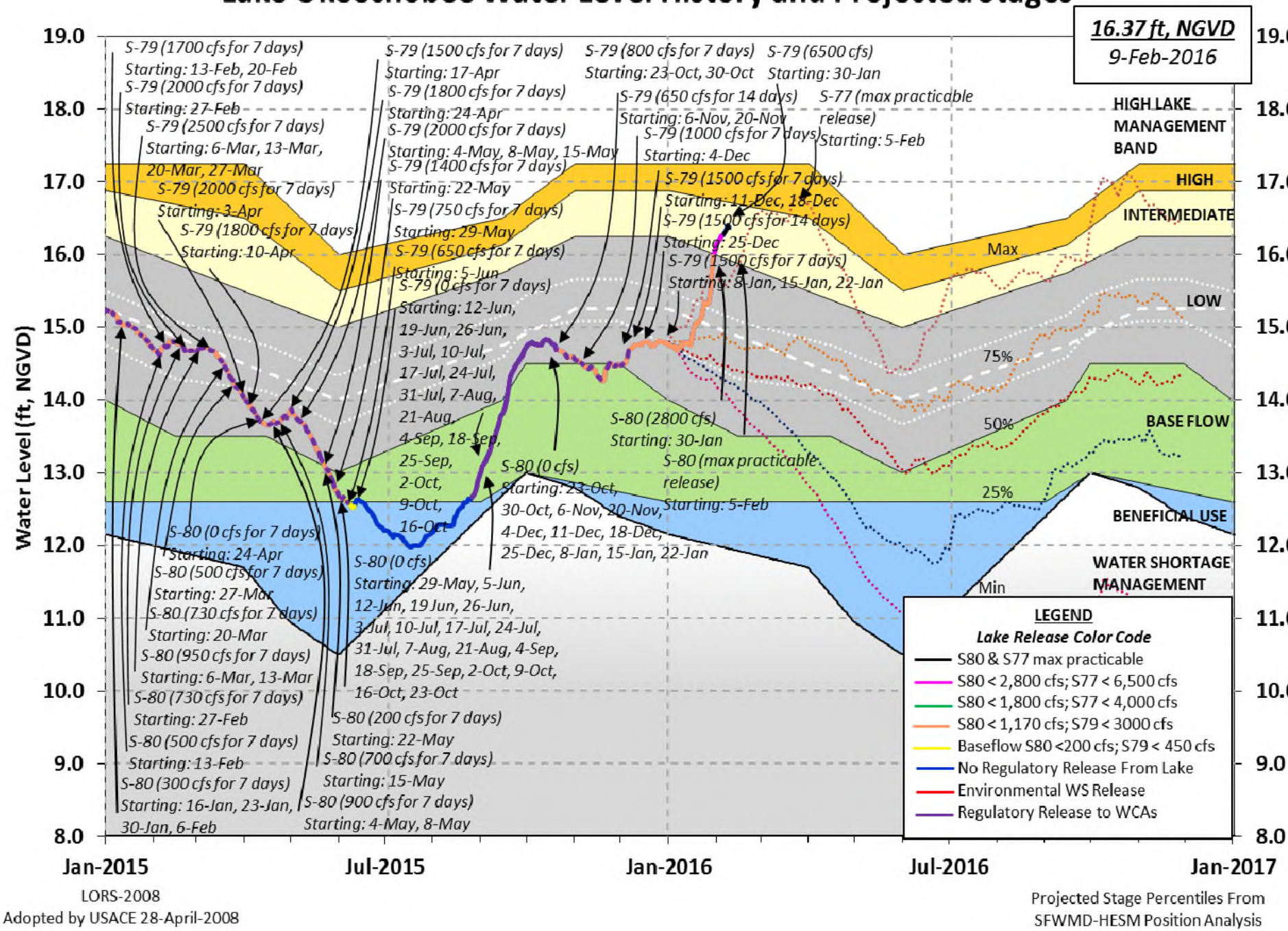


Figure 7-4

**** Very Dry Conditions may require that releases to tide (estuaries) be discontinued***

Lake Okeechobee Water Level History and Projected Stages



LORS-2008
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 07 FEB 2016

Okeechobee Lake Regulation	Elevation (ft-NGVD)	Last Year (ft-NGVD)	2YRS Ago (ft-NGVD)
*Okeechobee Lake Elevation	16.40	14.74	14.03 (Official Elv)

Bottom of High Lake Mngmt= 17.25 Top of Water Short Mngmt= 11.96
Currently in Operational Management Band

Simulated Average LORS2008 [1965-2000] 13.46
Difference from Average LORS2008 2.94

07FEB (1965-2007) Period of Record Average 14.61
Difference from POR Average 1.79

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

++Navigation Depth (Based on 2007 Channel Condition Survey) Route 1 ÷ 10.34'
++Navigation Depth (Based on 2008 Channel Condition Survey) Route 2 ÷ 8.54'
Bridge Clearance = 47.46'

---

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

L001	L005	L006	LZ40	S4	S352	S308	S133
16.14	16.19	16.54	16.42	16.35	16.86	16.59	16.13

*Combination Okeechobee Avg-Daily Lake Average = 16.40 (*See Note)

Okeechobee Inflows (cfs):

S65E	5214	C5	-140	Fisheating Cr	1337
S154	171	S191	871	S135 Pumps	194
S84	532	S133 Pumps	137	S2 Pumps	0
S84X	815	S127 Pumps	102	S3 Pumps	0
S71	1000	S129 Pumps	90	S4 Pumps	190
S72	486	S131 Pumps	41		

Total Inflows: 11041

Okeechobee Outflows (cfs):

S135 Culverts	0	S354	0	S77	5946 (Used)
S127 Culverts	-NR-	S351	0	S77Below	5277 (NOT USED)

```
  S129 Culverts     0      S352              0      S308           3224
(Used)
  S131 Culverts  -NR-      L8 Canal Pt      11      S308Below      3953 (NOT
USED)
Total Outflows:   9181

****S77 Structure outflow is being used to compute Total Outflow.
****S308 Structure outflow is being used to compute Total Outflow.

Okeechobee Pan Evaporation (inches):
  S77            0.11      S308           0.05
  Average Pan Evap x 0.75 Pan Coefficient =  0.06" =  0.00'

Lake Average Precipitation using NEXRAD: =  0.01" =  0.00'

Evaporation - Precipitation:             =  0.05" =  0.00'
Evaporation - Precipitation using Lake Area of 730 square miles
  is equal to    981 cfs out of the lake.
Lake Okeechobee (Change in Storage) Flow is  15881 cfs or  31500 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)
(ft)
                                (I) see note at bottom
North East Shore
  S133 Pumps:  13.47     16.15     137     30    0   36   42   30  (cfs)
  S193:        ______
  S191:        18.61     16.26     871    1.0  1.0  1.5
  S135 Pumps: ______      -NR-     194     48   49   48   48       (cfs)
  S135 Culverts:                     0   -NR- -NR-

North West Shore
  S65E:        21.03     16.13    5214    2.1  2.4  2.5  2.5  2.5  2.4
  S127 Pumps:  13.56      -NR-     102     35   36    0   30    0  (cfs)
  S127 Culvert:                   -NR-   -NR-

  S129 Pumps:  13.02     16.13      90     48   42    0           (cfs)
  S129 Culvert:                      0    0.0

  S131 Pumps:  12.91     16.08      41     42    0                (cfs)
  S131 Culvert:                   -NR-

  Fisheating Creek
    nr Palmdale          33.13    1337
    nr Lakeport         ______
```

```
  C5:          15.99    15.96   -140    8.0  0.0  8.0

South Shore
  S4 Pumps:    12.11     16.36     190    115    0   74            (cfs)
  S169:        15.58     12.24     104    1.0  1.0  1.0
  S310:        16.36                11
  S3 Pumps:     9.81     16.68       0      0    0    0            (cfs)
  S354:        16.68      9.81       0    0.0  0.0
  S2 Pumps:    10.16     16.73       0      0    0    0    0       (cfs)
  S351:        16.73     10.16       0    0.0  0.0  0.0
  S352:        16.79     10.55       0    0.0  0.0
  C10A:         -NR-     15.29           0.0   0.0   0.0   0.0   0.0
  L8 Canal PT            15.09      11

  ____________________________________________________________________
                  S351 and S352 Temporary Pumps/S354 Spillway

  S351:        10.16     16.73       0  -NR--NR--NR--NR--NR--NR-
  S352:        10.55     16.79       0  -NR--NR--NR--NR-
  S354:         9.81     16.68       0  -NR--NR--NR--NR-
  ____________________________________________________________________

Caloosahatchee River (S77, S78, S79)
  S47B:        13.01     11.42           1.0  1.5
  S47D:        11.30     11.28      90   5.0
  S77:
    Spillway and Sector Flow:
                 15.64     11.50    5944    5.5  5.5  5.5  5.5
    Flow Due to Lockages+:             2

  S77 Below USGS Flow Gage          5277

  S78:
    Spillway and Sector Flow:
                 10.82      3.49    7038    5.5  5.5  6.0  6.0
    Flow Due to Lockages+:            13

  S79:
    Spillway and Sector Flow:
                  3.08      1.45    9760    3.0  4.0  4.0  4.0  4.0  4.0  4.0
4.0
    Flow Due to Lockages+:             5
    Percent of flow from S77          61%
    Chloride              (ppm)     45


St. Lucie Canal (S308, S80)
  S308:
    Spillway and Sector Flow:
                 16.44     16.04    3224    6.0  6.0  6.0  6.0
    Flow Due to Lockages+:             0

  S308 Below USGS Flow Gage         3953
  S153:        18.90     15.81     269    0.7  0.7
  S80:
    Spillway and Sector Flow:
                 13.58      2.61    6309    2.0  2.0  2.0  3.0  2.0  2.0  3.0
```

Flow Due to Lockages+: 7
Percent of flow from S308 51%

Steele Point Top Salinity (mg/ml) 9037
Steele Point Bottom Salinity (mg/ml) ****

Speedy Point Top Salinity (mg/ml) 2399
Speedy Point Bottom Salinity (mg/ml) 3997

+ 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:	0.00	0.82	1.09		
S193:	-NR-	0.00	0.00	-NR-	-NR-
Okeechobee Field Station:	-NR-	0.00	0.00		
S135 Pump Station:	0.00	0.77	1.26		
S127 Pump Station:	0.00	0.51	0.90		
S129 Pump Station:	0.00	0.62	1.50		
S131 Pump Station:	0.00	0.41	1.09		
S77:	0.00	0.64	1.38	314	1
S78:	0.03	4.39	819.95	295	2
S79:	0.00	0.41	0.58	314	1
S4 Pump Station:	-NR-	0.00	0.00		
Clewiston Field Station:	-NR-	0.00	0.00		
S3 Pump Station:	0.00	0.38	0.77		
S2 Pump Station:	0.00	0.84	1.15		
S308:	*******	*******	*******	294	19
S80:	0.00	0.44	0.61	269	2
Okeechobee Average (Sites S78, S79 and S80 not included)	3092.67	6430.46	*******		
Oke Nexrad Basin Avg	0.01	0.56	0.94		

Okeechobee Lake Elevations	07 FEB 2016	16.40	Difference from 07FEB16
07FEB16 -1 Day =	06 FEB 2016	16.33	-0.07
07FEB16 -2 Days =	05 FEB 2016	16.30	-0.10
07FEB16 -3 Days =	04 FEB 2016	16.27	-0.13
07FEB16 -4 Days =	03 FEB 2016	16.25	-0.15
07FEB16 -5 Days =	02 FEB 2016	16.22	-0.18
07FEB16 -6 Days =	01 FEB 2016	16.19	-0.21
07FEB16 -7 Days =	31 JAN 2016	16.14	-0.26
07FEB16 -30 Days =	08 JAN 2016	14.74	-1.66
07FEB16 -1 Year =	07 FEB 2015	14.74	-1.66
07FEB16 -2 Year =	07 FEB 2014	14.03	-2.37

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

Lake Okeechobee Net Inflow (LONIN)

		Average Flow over the previous 14 days			Avg-Daily Flow
07FEB16	Today =	07 FEB 2016	21417	MON	25060
07FEB16	-1 Day =	06 FEB 2016	19197	SUN	16063
07FEB16	-2 Days =	05 FEB 2016	20070	SAT	14605
07FEB16	-3 Days =	04 FEB 2016	20279	FRI	11295
07FEB16	-4 Days =	03 FEB 2016	19952	THU	13574
07FEB16	-5 Days =	02 FEB 2016	19626	WED	13268
07FEB16	-6 Days =	01 FEB 2016	18538	TUE	17550
07FEB16	-7 Days =	31 JAN 2016	17606	MON	18324
07FEB16	-8 Days =	30 JAN 2016	17537	SUN	24600
07FEB16	-9 Days =	29 JAN 2016	17313	SAT	39023
07FEB16	-10 Days =	28 JAN 2016	16219	FRI	56366
07FEB16	-11 Days =	27 JAN 2016	12056	THU	43370
07FEB16	-12 Days =	26 JAN 2016	8672	WED	4354
07FEB16	-13 Days =	25 JAN 2016	8528	TUE	2389

S65E

		Average Flow over previous 14 days			Avg-Daily Flow
07FEB16	Today=	07 FEB 2016	4024	MON	5214
07FEB16	-1 Day =	06 FEB 2016	3836	SUN	4502
07FEB16	-2 Days =	05 FEB 2016	3742	SAT	3939
07FEB16	-3 Days =	04 FEB 2016	3674	FRI	3747
07FEB16	-4 Days =	03 FEB 2016	3600	THU	3778
07FEB16	-5 Days =	02 FEB 2016	3549	WED	3817
07FEB16	-6 Days =	01 FEB 2016	3515	TUE	4118
07FEB16	-7 Days =	31 JAN 2016	3451	MON	4499
07FEB16	-8 Days =	30 JAN 2016	3341	SUN	5140
07FEB16	-9 Days =	29 JAN 2016	3121	SAT	4979
07FEB16	-10 Days =	28 JAN 2016	2884	FRI	4253
07FEB16	-11 Days =	27 JAN 2016	2642	THU	3403
07FEB16	-12 Days =	26 JAN 2016	2479	WED	2341
07FEB16	-13 Days =	25 JAN 2016	2374	TUE	2611

Lake Okeechobee Outlets Last 14 Days

DATE	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)
07 FEB 2016	-NR-	11790	10465	-NR-	13981	19364
06 FEB 2016	-NR-	11624	10567	-NR-	13846	18552
05 FEB 2016	-NR-	10426	10312	-NR-	14295	19776
04 FEB 2016	-NR-	10211	10310	-NR-	14200	19262
03 FEB 2016	-NR-	10575	9953	-NR-	14982	21121
02 FEB 2016	-NR-	10231	10018	-NR-	15223	23320
01 FEB 2016	-NR-	9769	9812	-NR-	14954	25507
31 JAN 2016	-NR-	7228	7946	-NR-	12718	23638

30 JAN 2016	-NR-	3637	2695	-NR-	10757	25087
29 JAN 2016	-NR-	7	-40	-NR-	9352	28317
28 JAN 2016	-NR-	5	22	-NR-	7274	24331
27 JAN 2016	-NR-	6	75	-NR-	3423	11064
26 JAN 2016	-NR-	19	216	-NR-	2153	6385
25 JAN 2016	-NR-	436	445	-NR-	2344	5070

DATE	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)
07 FEB 2016	21	0	0	0	22
06 FEB 2016	25	0	0	0	51
05 FEB 2016	102	0	0	0	61
04 FEB 2016	62	0	0	0	83
03 FEB 2016	10	0	0	0	102
02 FEB 2016	32	0	0	0	75
01 FEB 2016	-6	0	0	0	18
31 JAN 2016	-10	0	0	0	-109
30 JAN 2016	-5	0	0	0	-393
29 JAN 2016	3	0	0	0	-672
28 JAN 2016	8	0	0	0	-670
27 JAN 2016	-24	0	0	0	22
26 JAN 2016	-64	0	0	0	37
25 JAN 2016	-98	0	0	0	11

DATE	S-308 Discharge (ALL DAY) (AC-FT)	Below S-308 Discharge (ALL-DAY) (AC-FT)	S-80 Discharge (ALL-DAY) (AC-FT)
07 FEB 2016	6393	7839	12524
06 FEB 2016	6705	6452	10539
05 FEB 2016	4993	4682	6613
04 FEB 2016	-NA-	2472	5547
03 FEB 2016	-NA-	2244	5599
02 FEB 2016	-NA-	2023	5662
01 FEB 2016	-NA-	1925	-NR-
31 JAN 2016	-NA-	1716	5602
30 JAN 2016	-NA-	415	5897
29 JAN 2016	1	-NR-	7661
28 JAN 2016	2	-NR-	8029
27 JAN 2016	2	-NR-	3739
26 JAN 2016	6	238	559
25 JAN 2016	6	51	632

*** 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.

(I) - Flows preceeded 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 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

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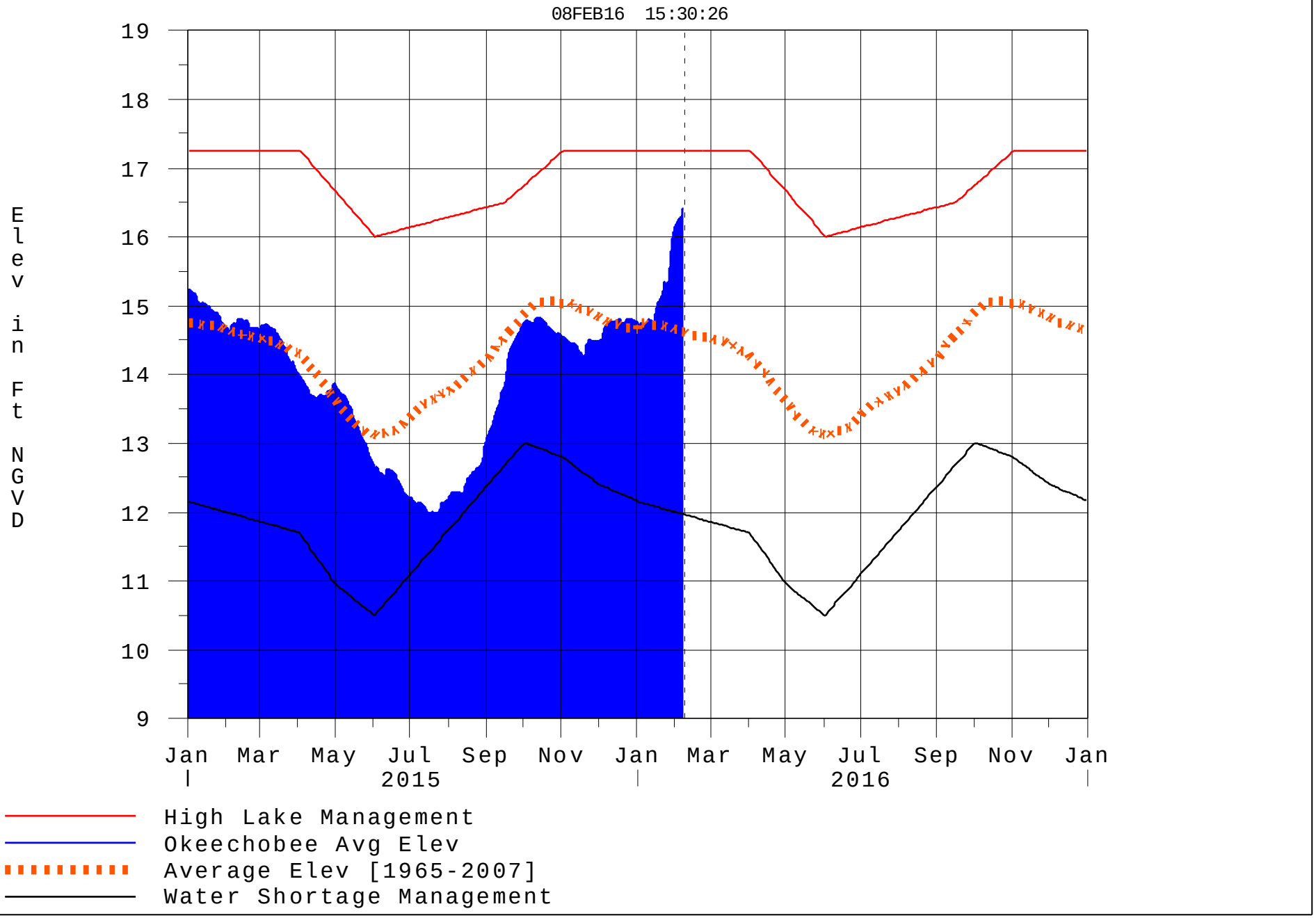
Report Generated 08FEB2016 @ 15:38 ** Preliminary Data - Subject to Revision **

Lake Okeechobee



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

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Tributary Hydrologic Classification*	Palmer Index Class Limits	2-wk Mean L.O. Net 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 [million acre-feet]	Equivalent Depth** [feet]	Lake Okeechobee 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 [million acre-feet]	**Equivalent Depth** [feet]**	**Lake Okeechobee 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

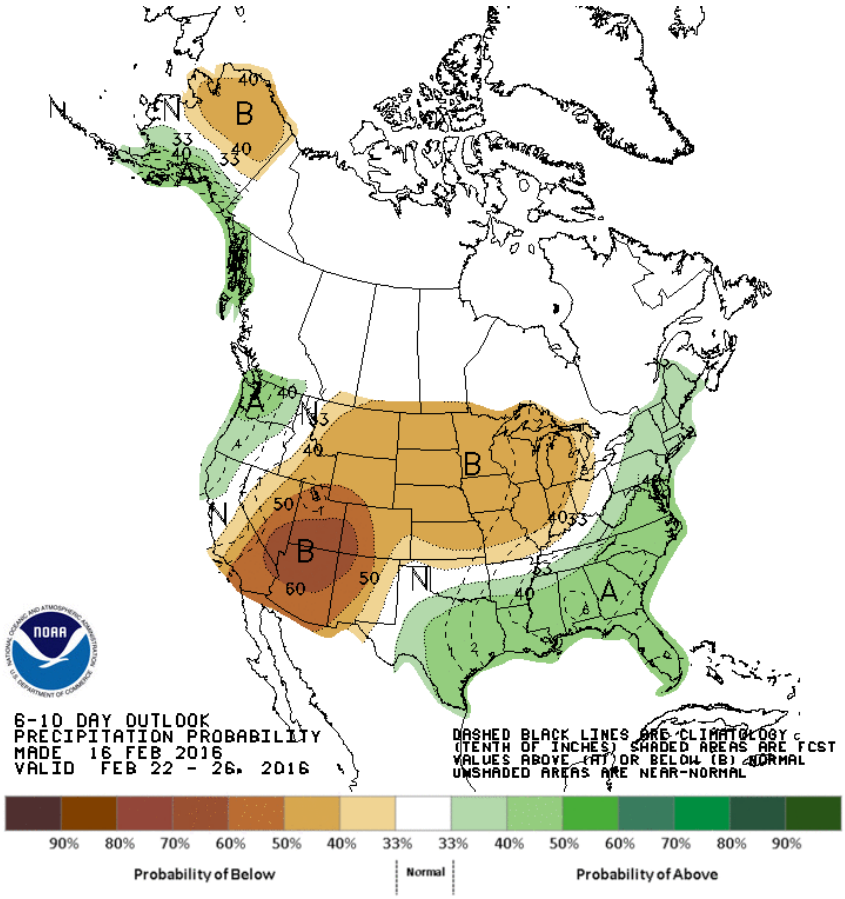
USACE POSITION STATEMENT: The Corps considers Lake Okeechobee water level to be in the High Sub-band since 4 February 2016.

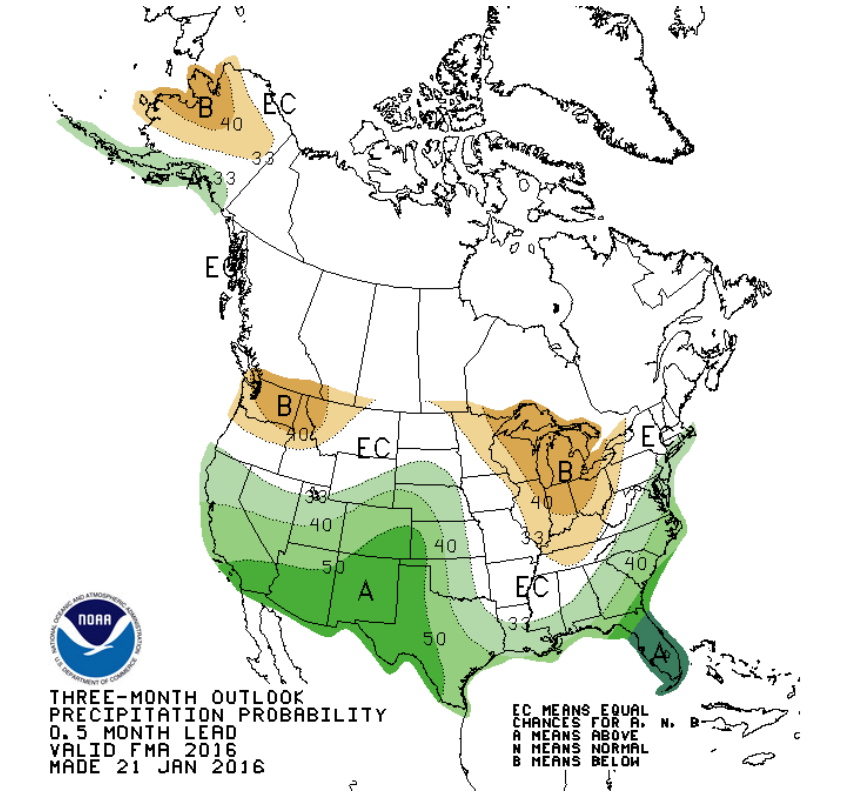
Considering the lack of availability of STA treatment capacity, SFWMD designated lands, CERP reservoirs, the condition of tributary basins, WCAs water levels well above schedule, precipitation forecast, continued very strong El Niño and Kissimmee Chain of Lake levels, Lake Okeechobee level is less than 0.5 feet below the High Sub-Band and projected to rise into the High Sub-Band, therefore, the allowable Lake Okeechobee release is determined by following Part D (Figure 7-4) with the lake level considered to be in the High Sub-Band.

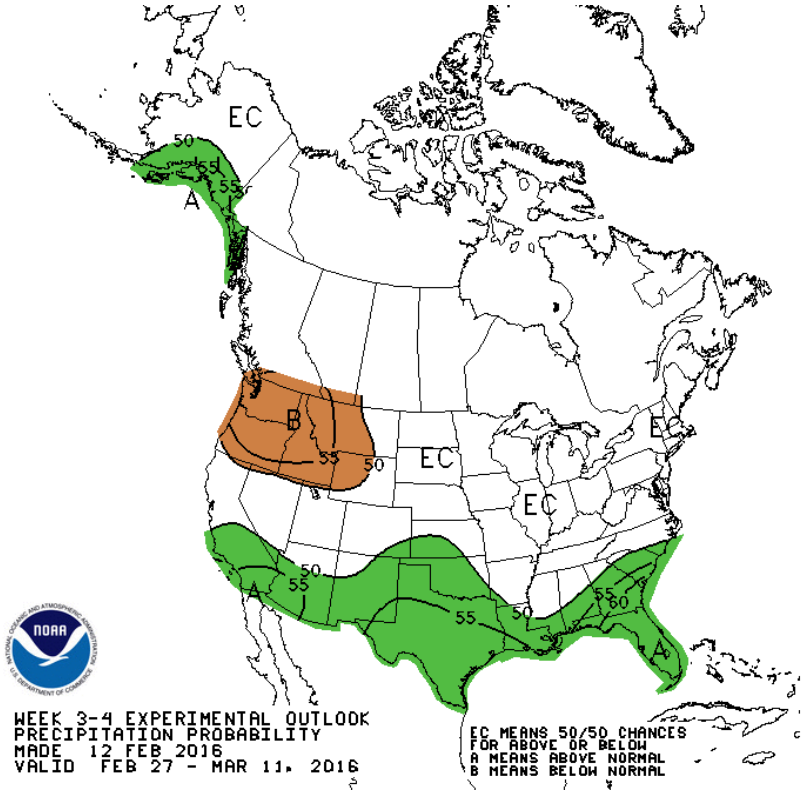
FACTS/CONSIDERATIONS:

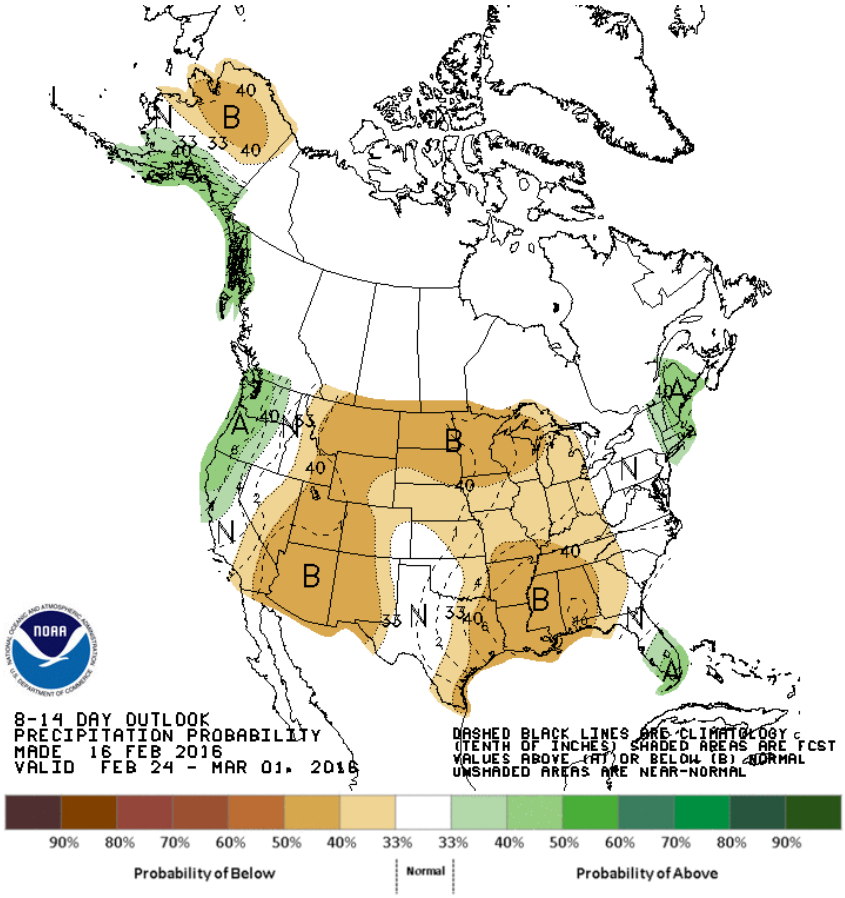
* Very strong El Niño conditions ongoing and forecasted to continue
* Definitely, one of the strongest El Niño since 1950
* Record wettest January in South Florida since records began in 1932
* Lake Okeechobee water level above the optimum range of 12.5 and 15.5 feet, NGVD29
* No additional storage available in SFWMD designated lands per SFWMD
* No additional storage available in the WCAs
* Tributary hydrologic conditions remain very wet
* Lake Okeechobee releases made since 4 February is equivalent to 0.5 feet off the lake
* WPC QPF for the next week indicates rainfall
* CPC Long Range Forecasts (i.e. 6-10 Day, 8-14 Day, 1-Month and 3-Month Outlooks) indicate very high chance of above average rainfall for the rest of the dry season
* Parts C and D of the 2008 LORS WCP are the operational guidance that provide essential supplementary information to be used in conjunction with other supporting documentation including text within the Water Control Plan.
* Decision-Making Process: The decision-making process for Lake Okeechobee water management operations considers all Congressionally-authorized project purposes. The decision-making process to determine quantity, timing, and duration of the potential release from Lake Okeechobee includes consideration of various information related to water management. This information includes but is not necessarily limited to: C&SF Project conditions, historical lake levels, estuary conditions/needs, lake ecology conditions/needs, WCA water levels, STA available capacity, current climate conditions, climate forecasts, hydrologic outlooks, projected lake level rise/recession, and water supply conditions/needs.
* Near band and sub-band limits: When operating near band and sub-band limits, up to 30-day forecasts will be made and releases will be scheduled to lower or maintain Lake Okeechobee at the desired level during the 30-day period. Scheduling of releases may include the adjustment of band/sub-band limits when determining the release to implement. Factors considered in adjusting the band/sub-band limits would include but not be limited to: availability of STA treatment capacity, SFWMD designated lands, CERP reservoirs, and the condition of tributary basins. The band/sub-band adjustment is meant to transition into and out of sub-bands by allowing flows to gradually increase or decrease between sub-bands.

REFERENCE:
2008 Lake Okeechobee Regulation Schedule Water Control Plan


6-10 DAY OUTLOOK
PRECIPITATION PROBABILITY
MADE 16 FEB 2016
VALID FEB 22 - 26, 2016
DASHED BLACK LINES ARE CLIMATOLOGY
(TENTH OF INCHES) SHADED AREAS ARE FCST
VALUES ABOVE (A) OR BELOW (B) NORMAL
UNSHADED AREAS ARE NEAR-NORMAL
90% 80% 70% 60% 50% 40% 33% 33% 40% 50% 60% 70% 80% 90%
Probability of Below
Normal
Probability of Above


THREE-MONTH OUTLOOK
PRECIPITATION PROBABILITY
0.5 MONTH LEAD
VALID FMA 2016
MADE 21 JAN 2016
EC MEANS EQUAL
CHANCES FOR A, N, B
A MEANS ABOVE
N MEANS NORMAL
B MEANS BELOW


EC
A
B
EC
EC
EC
A
A
50
55
55
50
55
50
55
60
WEEK 3-4 EXPERIMENTAL OUTLOOK
PRECIPITATION PROBABILITY
MADE 12 FEB 2016
VALID FEB 27 - MAR 11, 2016
EC MEANS 50/50 CHANCES
FOR ABOVE OR BELOW
A MEANS ABOVE NORMAL
B MEANS BELOW NORMAL


N
B
40
33
33
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A
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40
N
B
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40
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N
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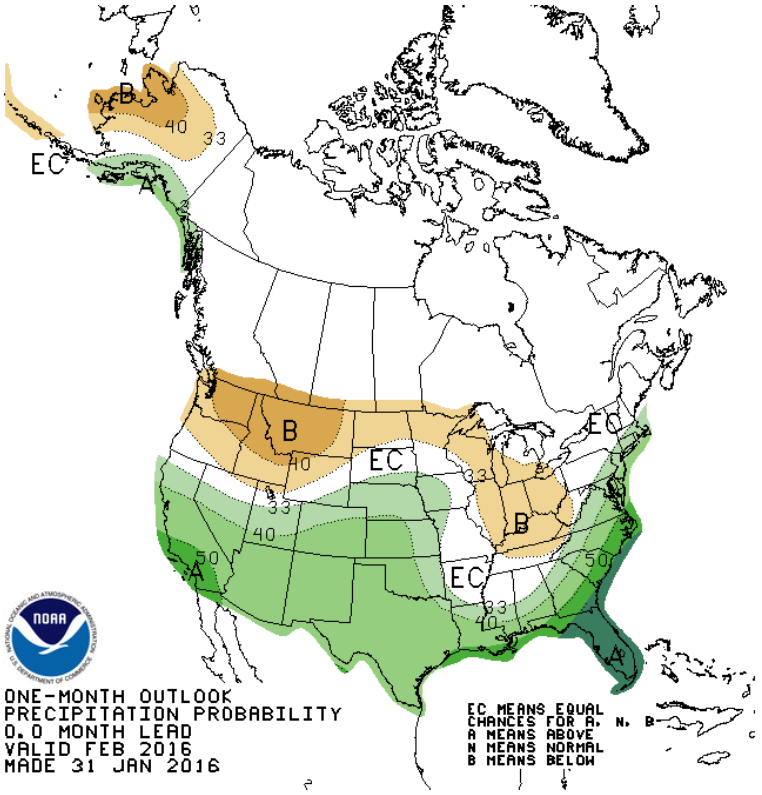
B
33
N
33
40
N
A
8-14 DAY OUTLOOK
PRECIPITATION PROBABILITY
MADE 16 FEB 2016
VALID FEB 24 - MAR 01, 2016
DASHED BLACK LINES ARE CLIMATOLOGY
(TENTH OF INCHES) SHADED AREAS ARE FCST
VALUES ABOVE (A) OR BELOW (B) NORMAL
UNSHADED AREAS ARE NEAR-NORMAL
90% 80% 70% 60% 50% 40% 33% 33% 40% 50% 60% 70% 80% 90%
Probability of Below
Normal
Probability of Above



Lake Oke Compared to EL [1965-2007] on 17feb w/o Flows to S-77 and S-308