Water Conditions

March 12, 2009

District realtime

Radar **Raindar**

Rainfall Forecast

Sit Report

STAs report

EAA Water levels

Current Q

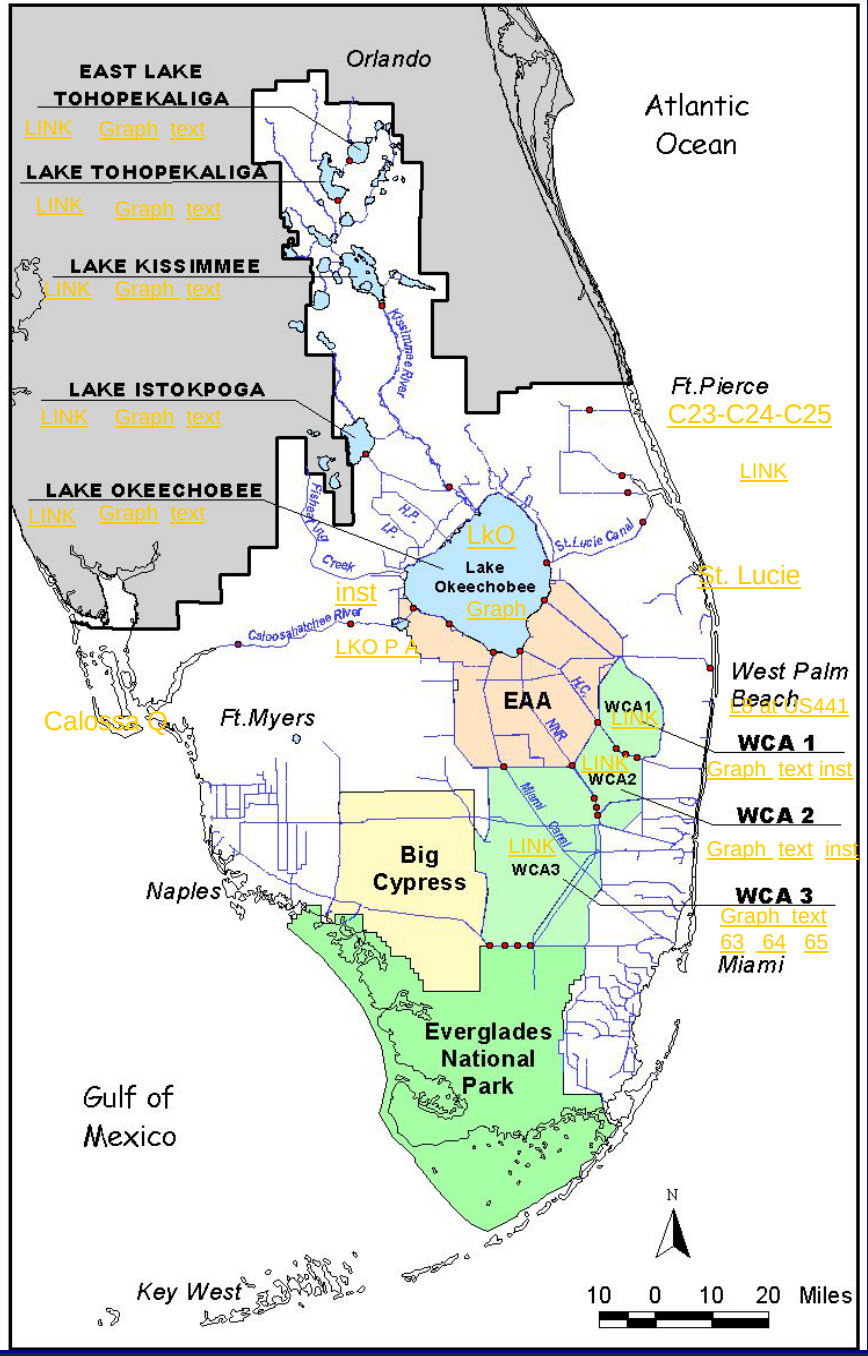
Google current flows

NWS/NOAA rainfall

NWS/NOAA QPF

WebAtlas **GVA**

CPC_3month-outlook



Rainfall (seasonal) LINK

Rainfall (monthly) LINK

State drought monitor LINK

Evapotransiraton

PA Analysis LINK

3-month outlook LINK

Reg. Schedules Monthly

Rainfall Past 30 Days LINK

Ripple Effect

Groundwater **Groundwater2**

COE Website **USGS RT Sites**

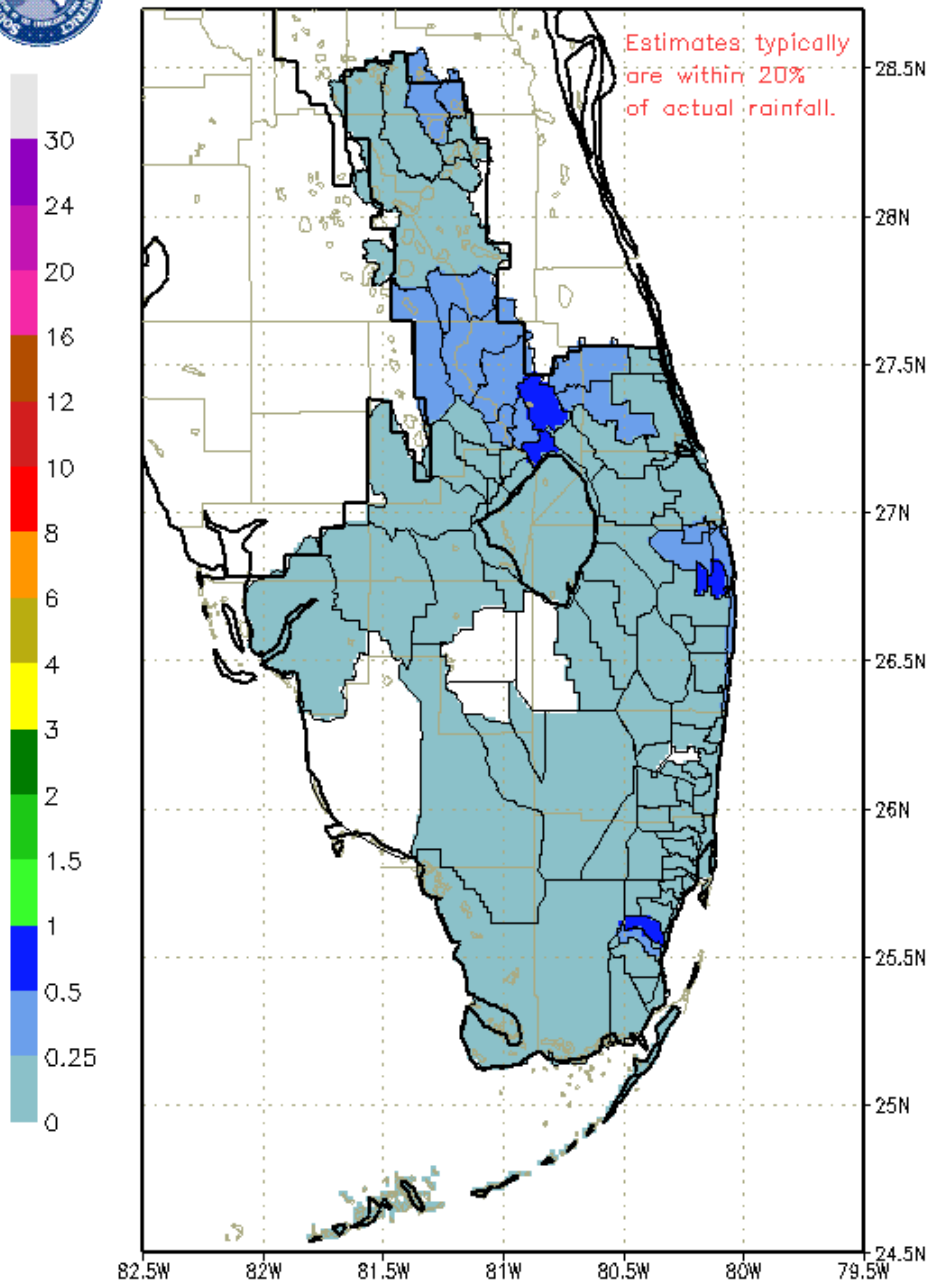
Note:

All values are in units of feet, NGVD

SFWMD RAINDAR 30-DAY BASIN RAINFALL ESTIMATES

FROM: 0845 EST, 02/08/2009 THROUGH: 0845 EST, 03/10/2009

back



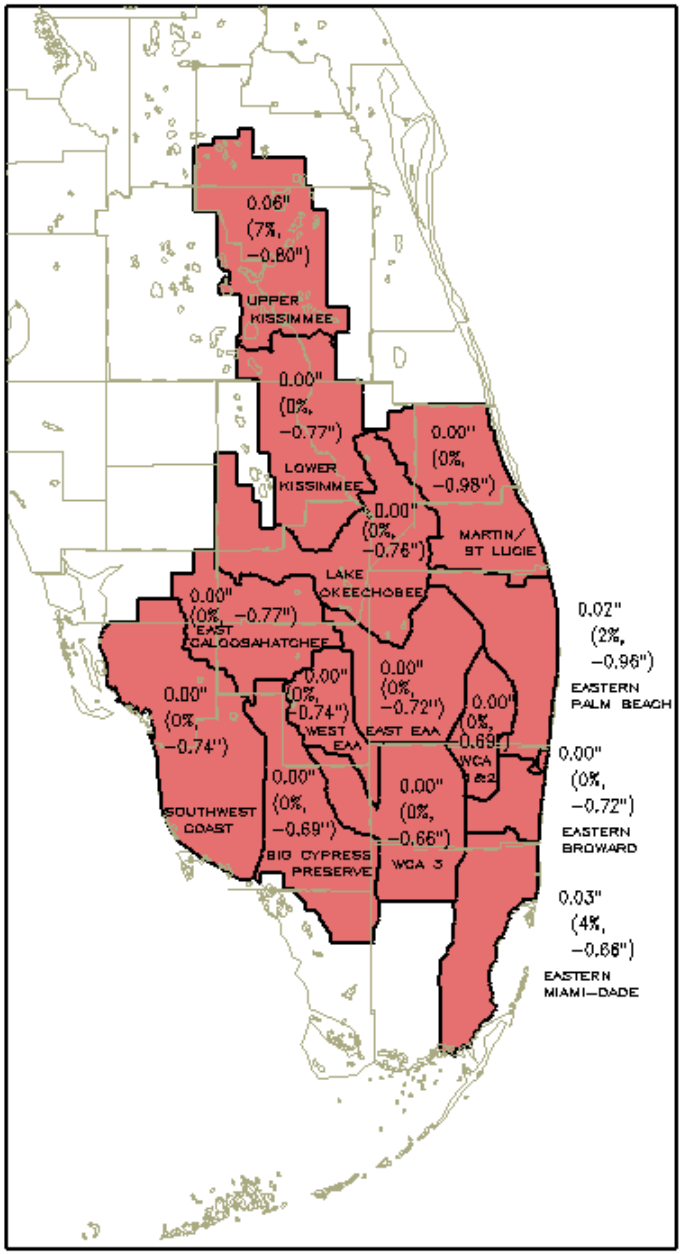
DISTRICT-WIDE RAINFALL ESTIMATE: 0.108"

GrADS: COLA/IGES

2009-03-10-10:44

back

SFWMD Rainfall
02-MAR-2009 to 09-MAR-2009



DISTRICT-WIDE: 0.01" (1%, -0.77")

GrADS: COLA/IGES

2009-03-10-10:02

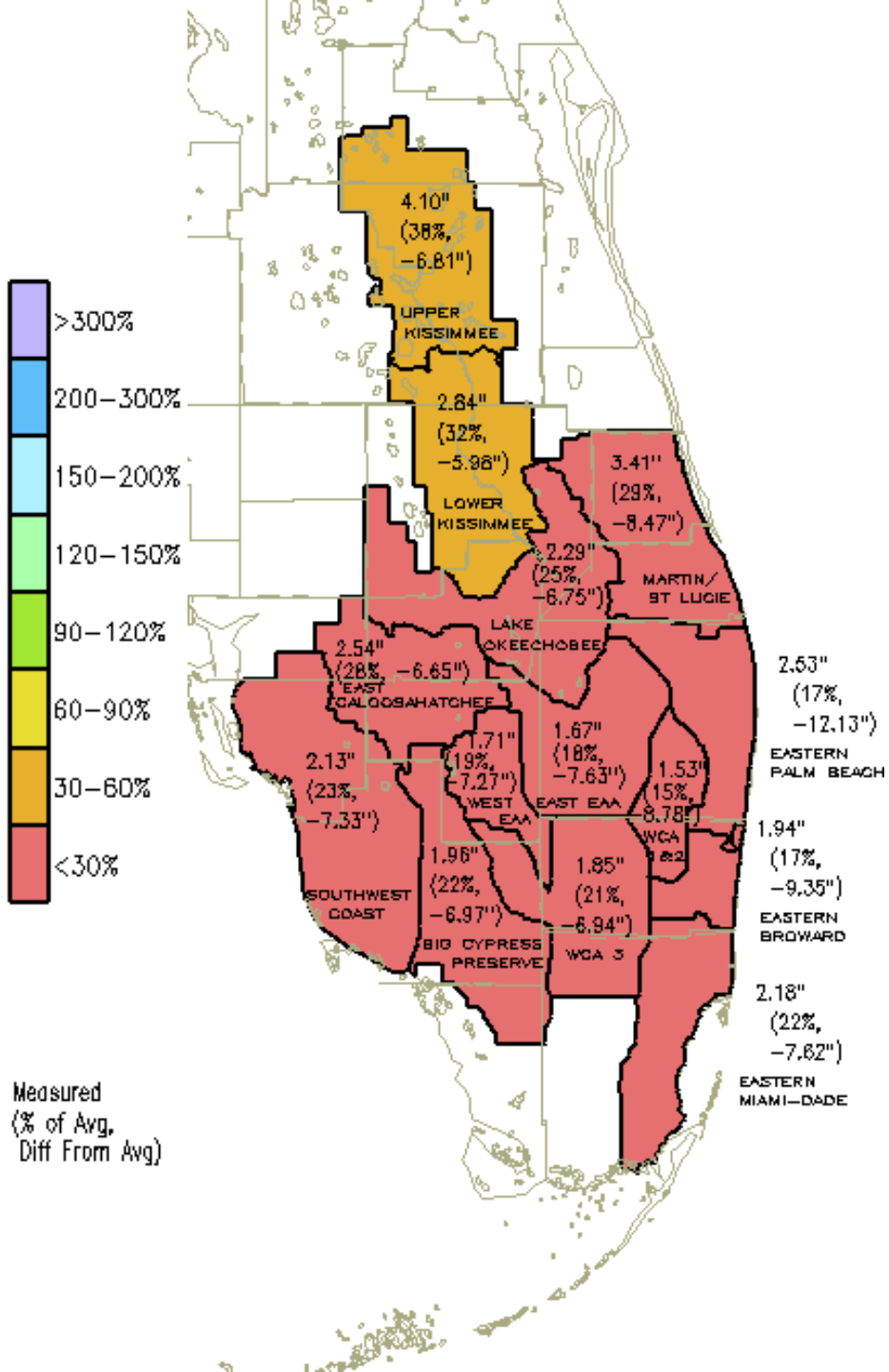
back

2009 Dry Season

1 Nov 2008 – 9 Mar 2009

2.45 inches District Wide

25% (- 7.42 inches)

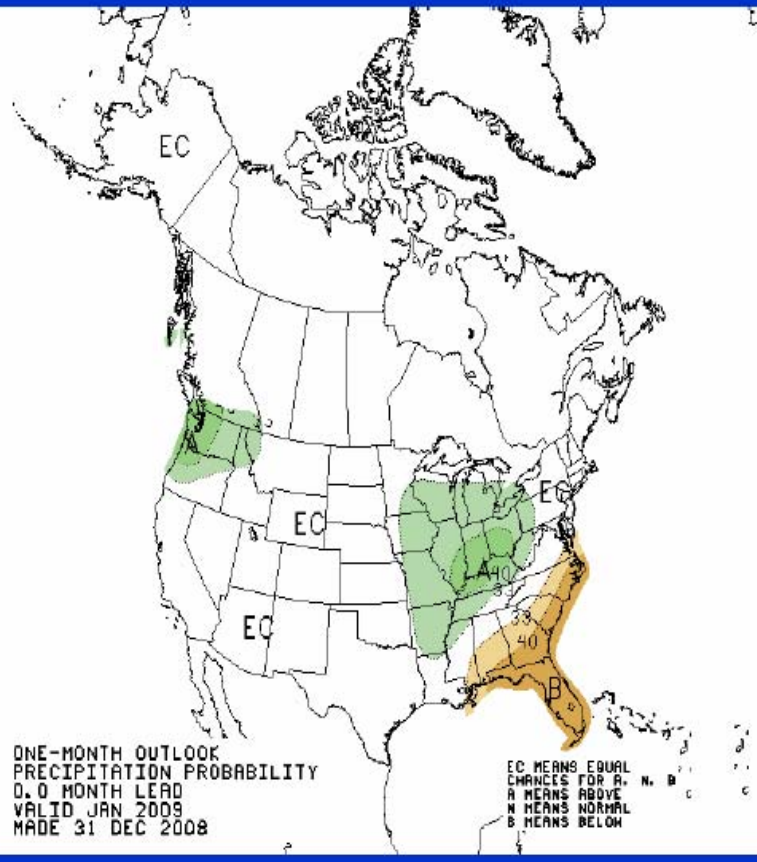


back

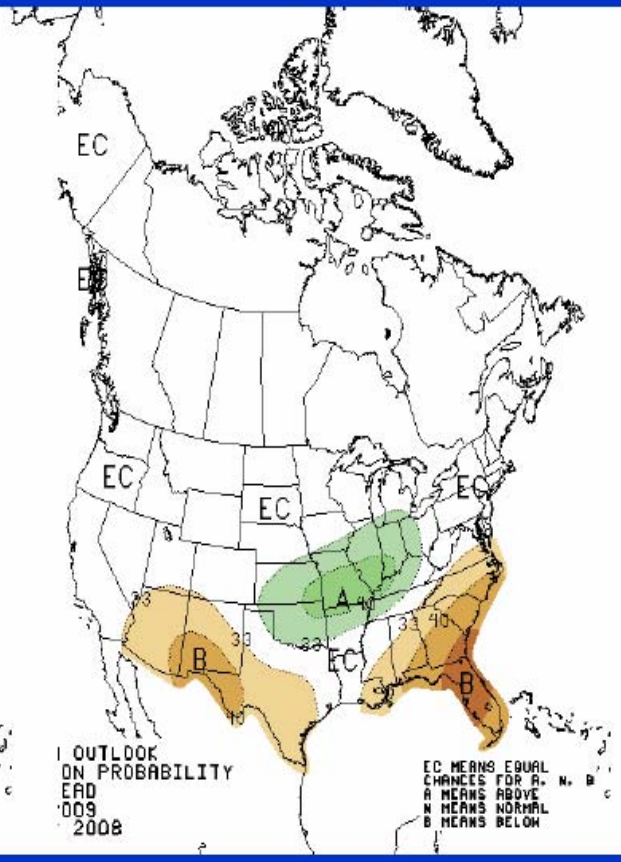
Official CPC Seasonal Rainfall Outlook

The Official climate outlook calls for an increased probability of below normal rainfall for the remainder of January through mid- April.

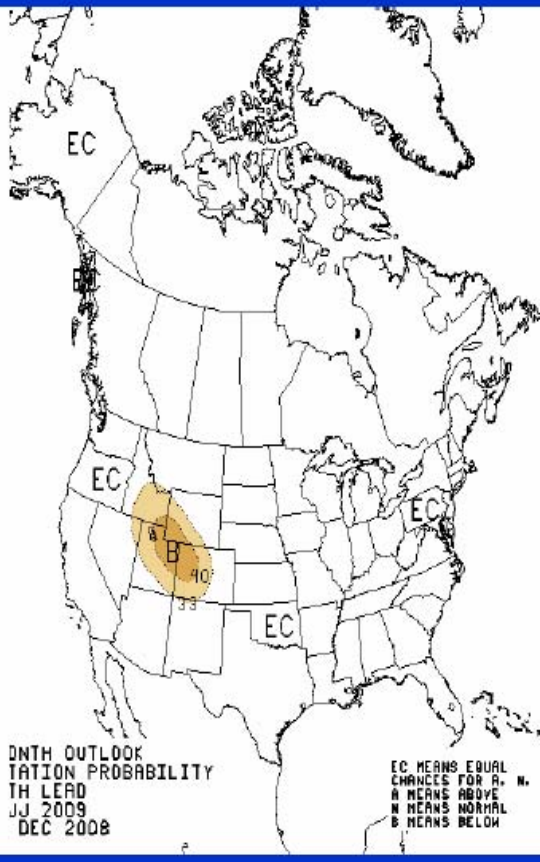
January



February-April



May-July



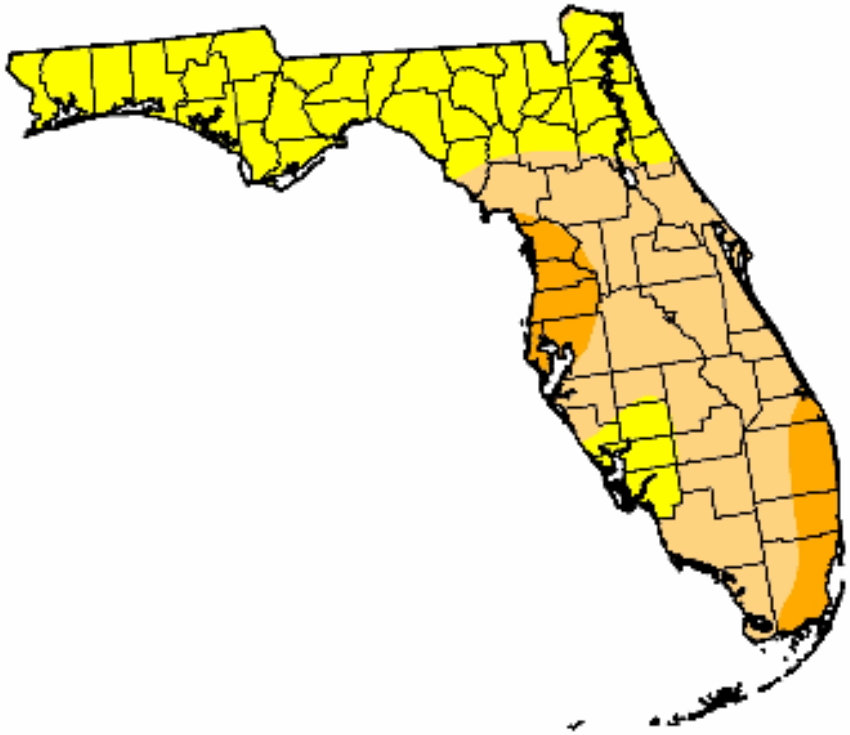
U.S. Drought Monitor

Florida

March 3, 2009
Valid 7 a.m. EST

Drought Conditions (Percent Area)

	None	D0-D4	D1-D4	D2-D4	D3-D4	D4
Current	0.2	99.8	56.4	11.2	0.0	0.0
Last Week (02/24/2009 map)	10.6	89.4	37.8	5.5	0.0	0.0
3 Months Ago (12/09/2008 map)	76.4	23.6	6.6	0.0	0.0	0.0
Start of Calendar Year (01/06/2009 map)	44.0	56.0	13.4	0.0	0.0	0.0
Start of Water Year (10/07/2008 map)	75.8	24.2	0.0	0.0	0.0	0.0
One Year Ago (03/04/2008 map)	36.7	63.3	32.3	20.3	3.1	0.0



Intensity:

- D0 Abnormally Dry
- D1 Drought - Moderate
- D2 Drought - Severe
- D3 Drought - Extreme
- D4 Drought - Exceptional

The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying text summary for forecast statements

http://drought.unl.edu/dm

Released Thursday, March 5, 2009

Author: J. Lawrimore/L. Love-Brotak, NOAA/NESDIS/NCDC

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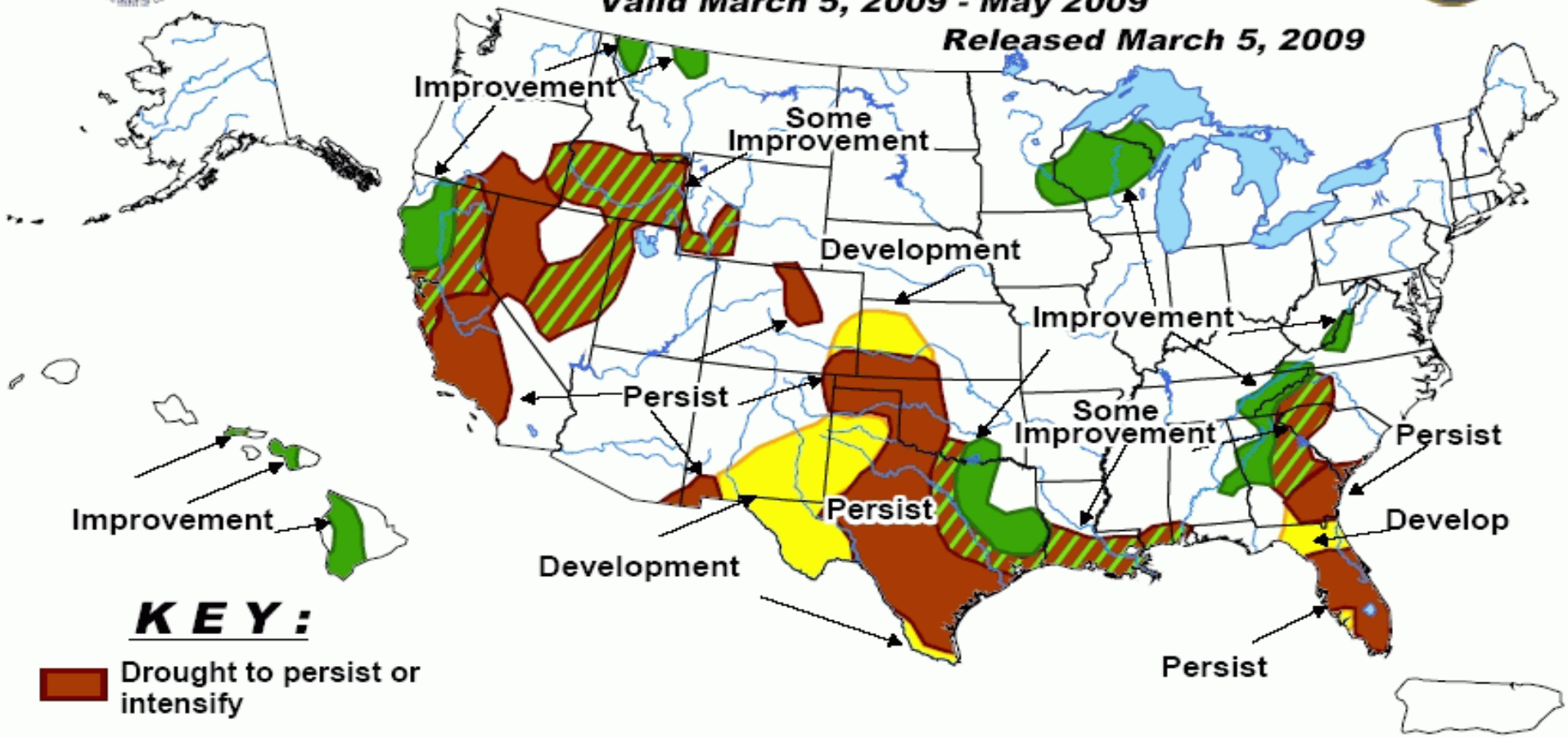
U.S. Seasonal Drought Outlook

Drought Tendency During the Valid Period

Valid March 5, 2009 - May 2009

Released March 5, 2009



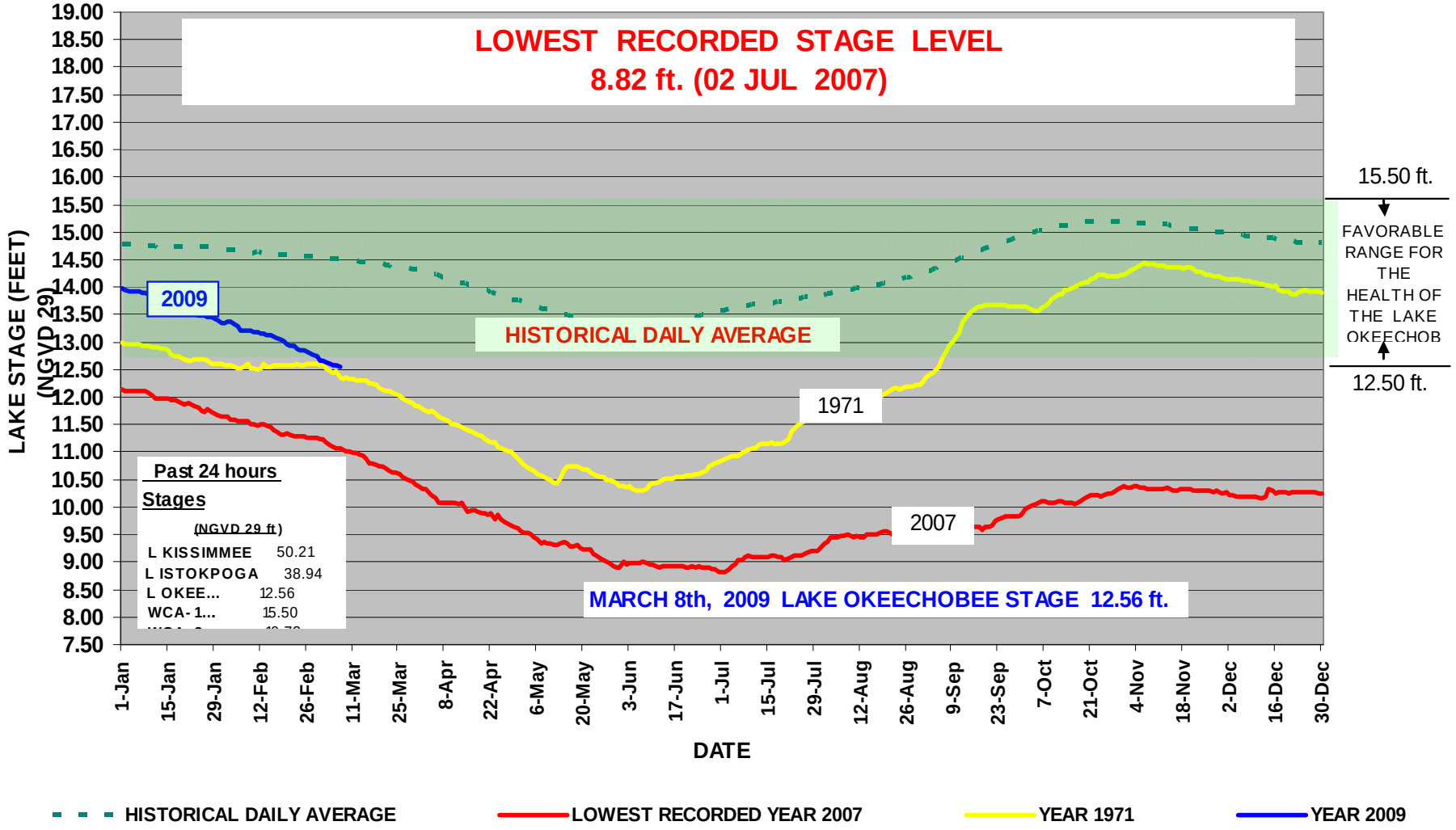
KEY:

- Drought to persist or intensify
- Drought ongoing, some improvement
- Drought likely to improve, impacts ease
- Drought development likely

Depicts large-scale trends based on subjectively derived probabilities guided by short- and long-range statistical and dynamical forecasts. Short-term events -- such as individual storms -- cannot be accurately forecast more than a few days in advance. Use caution for applications -- such as crops -- that can be affected by such events. "Ongoing" drought areas are approximated from the Drought Monitor (D1 to D4 intensity). For weekly drought updates, see the latest U.S. Drought Monitor. NOTE: the green improvement areas imply at least a 1-category improvement in the Drought Monitor intensity levels, but do not necessarily imply drought elimination.

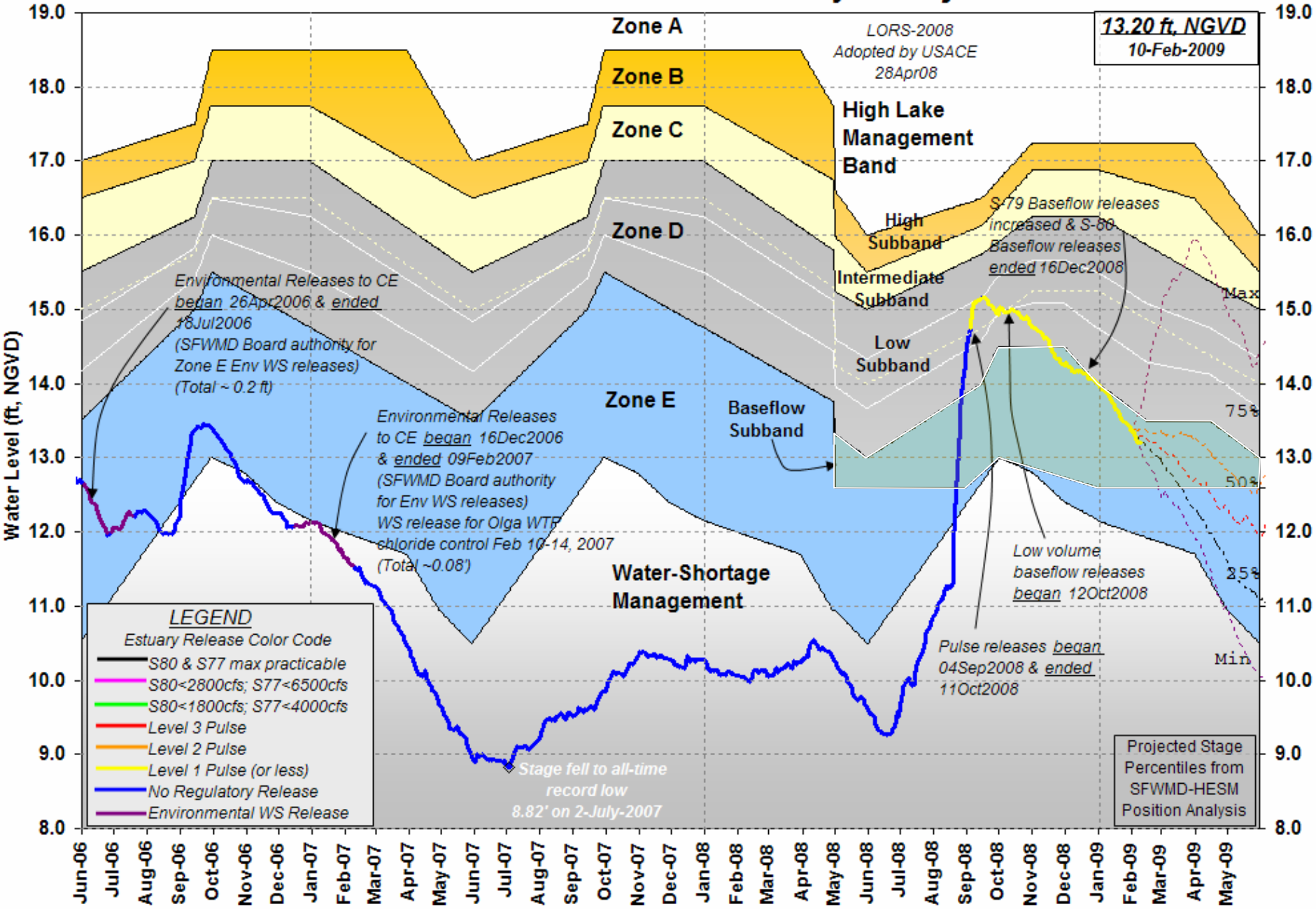
back

LAKE OKEECHOBEE



back

Lake Okeechobee Water Level History & Projection



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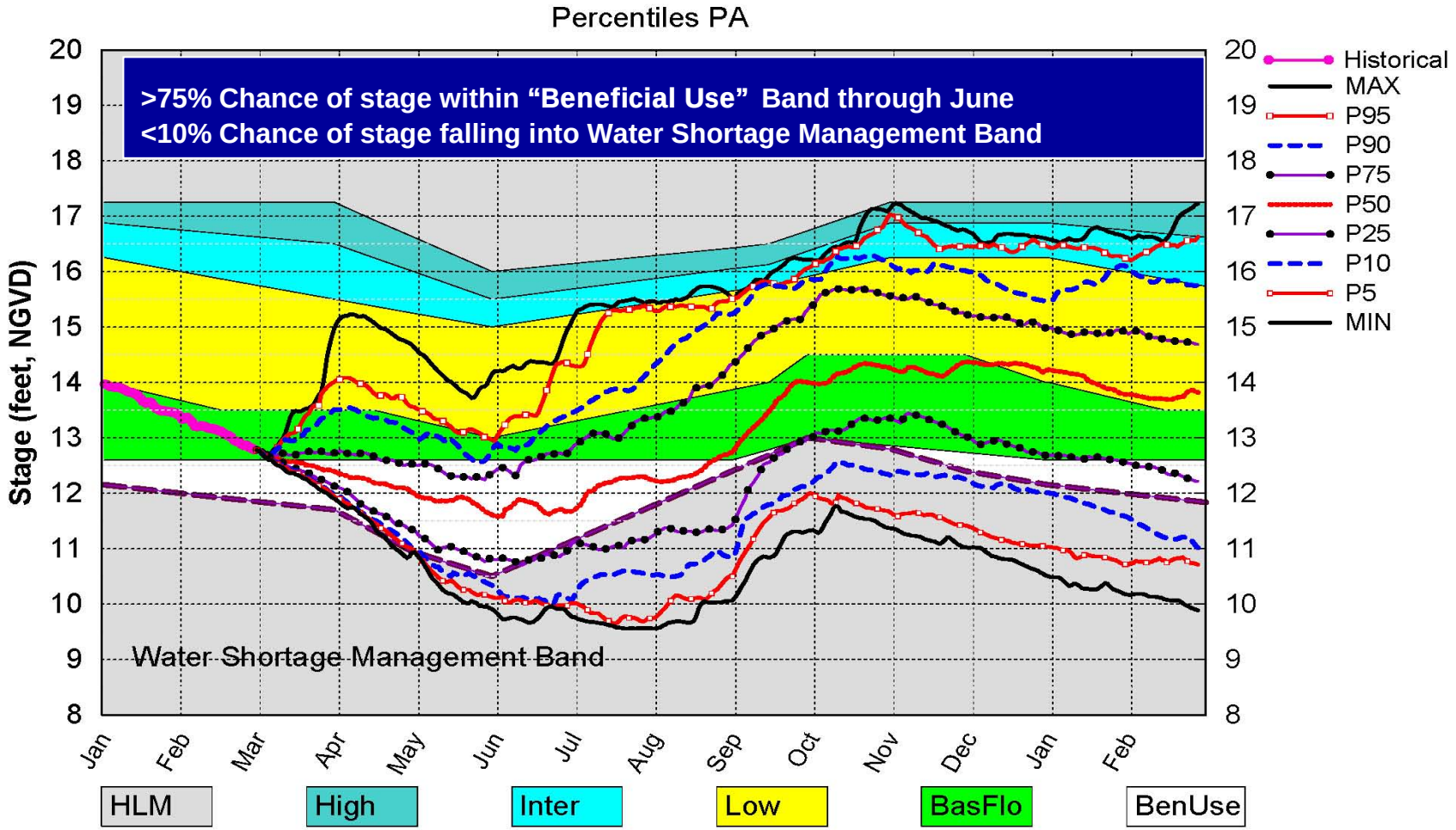
How will Lake Okeechobee stages behave during the next ?

- Depends on rainfall
- Projections provided monthly by SFWMD Hydrologic and Environmental Systems Modeling (HESM) Department

- Position Analysis
  - Each year starts with current hydrologic conditions
  - 41 1-yr simulations of system response to historical rainfall conditions
  - Statistical summaries used to display projections

back

Lake Okeechobee SFWMM March 2009 Position Analysis



(See assumptions on the Position Analysis Results website)

Fri Mar 6 11:07:49 2009

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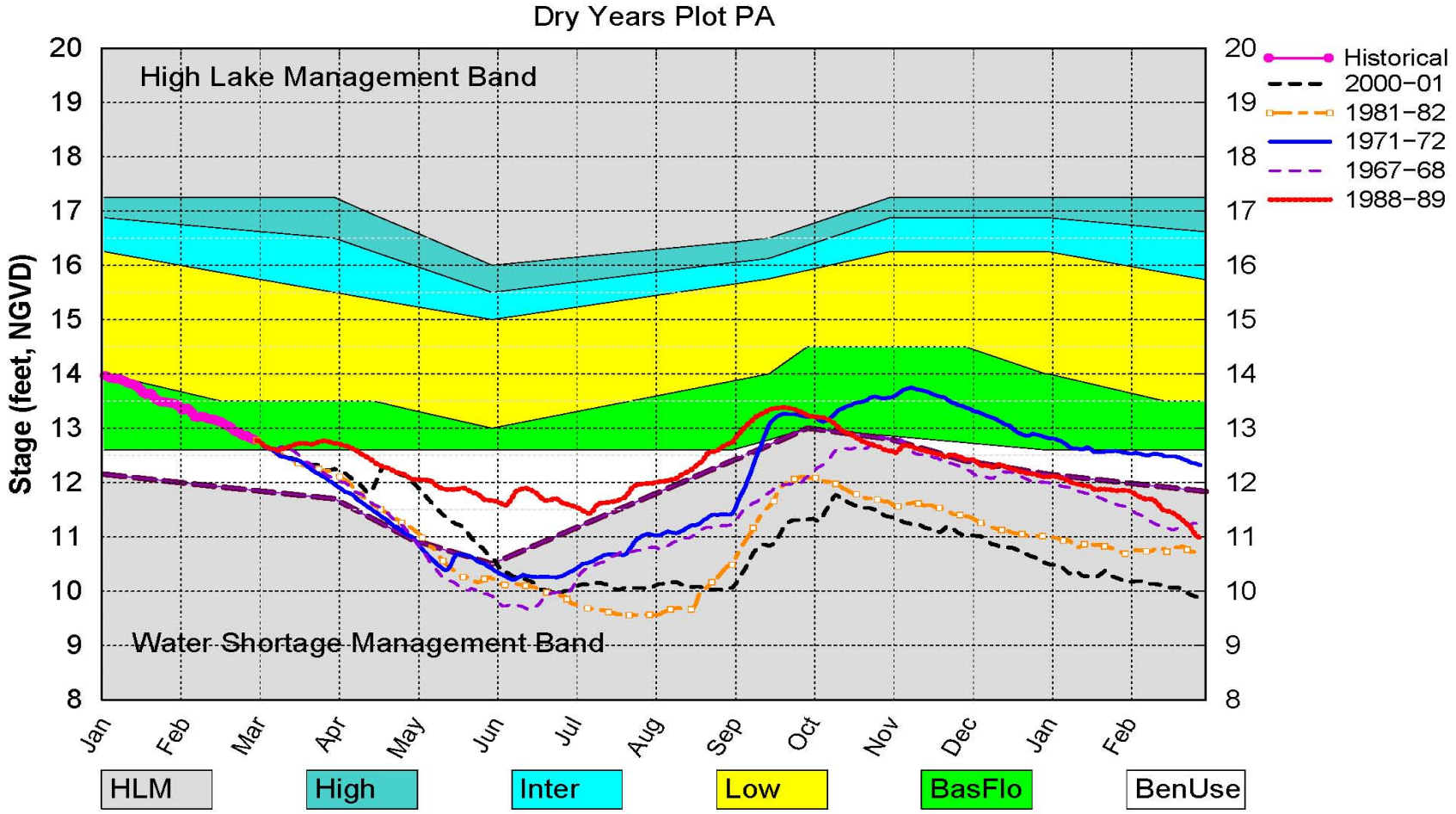
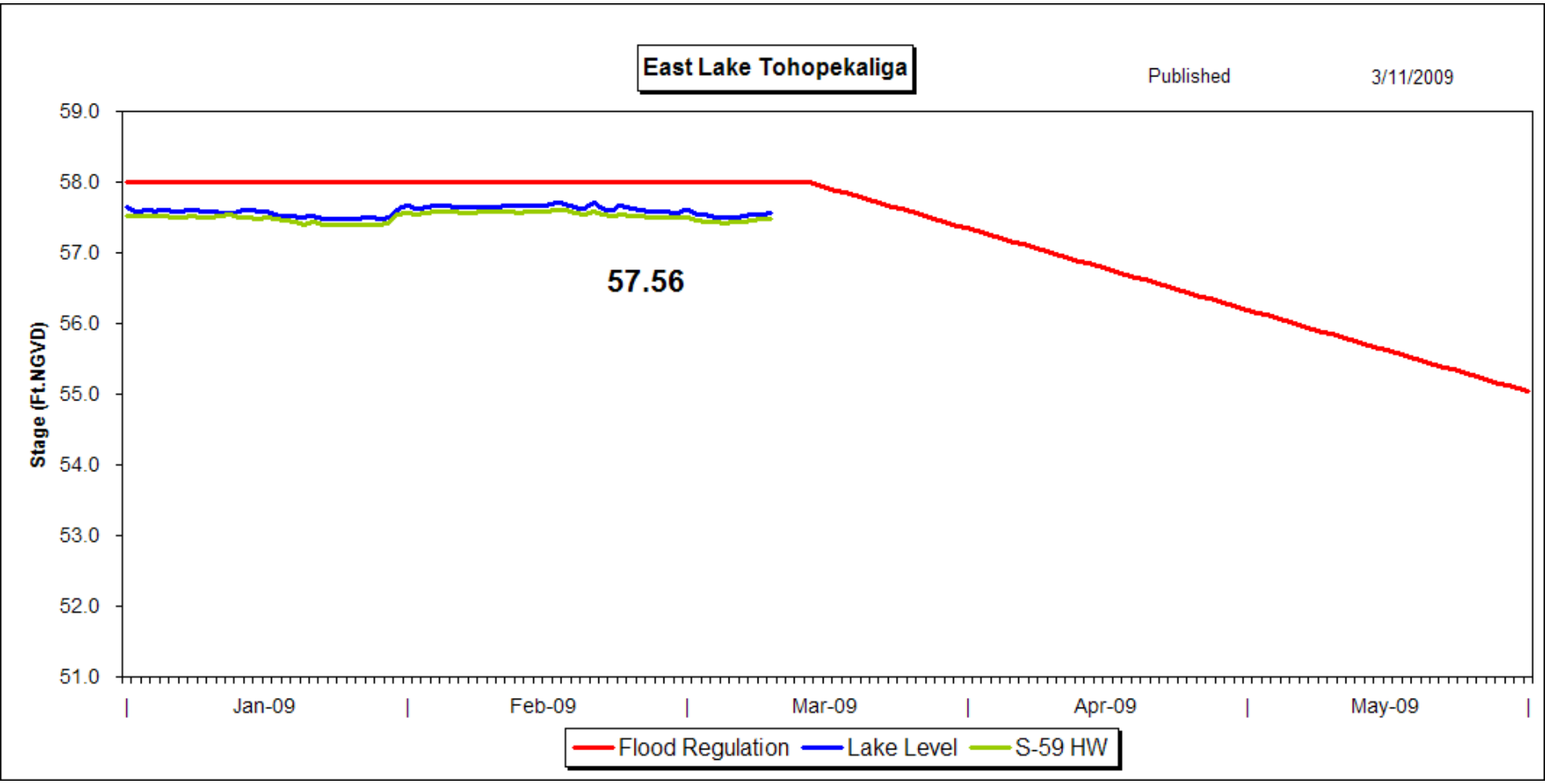
Lake Okeechobee SFWMM March 2009 Position Analysis



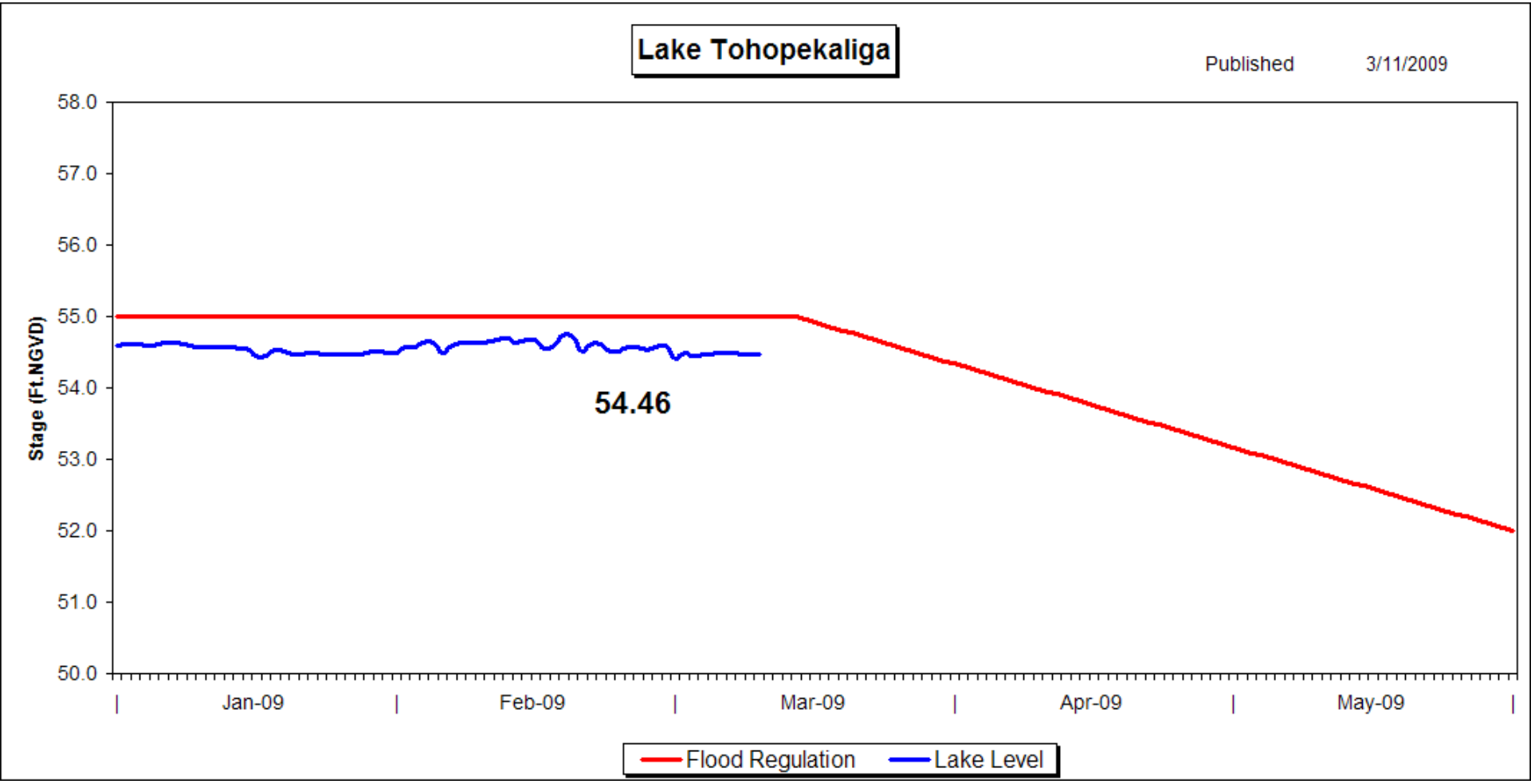
(See assumptions on the Position Analysis Results website)

Fri Mar 6 11:09:14 2009

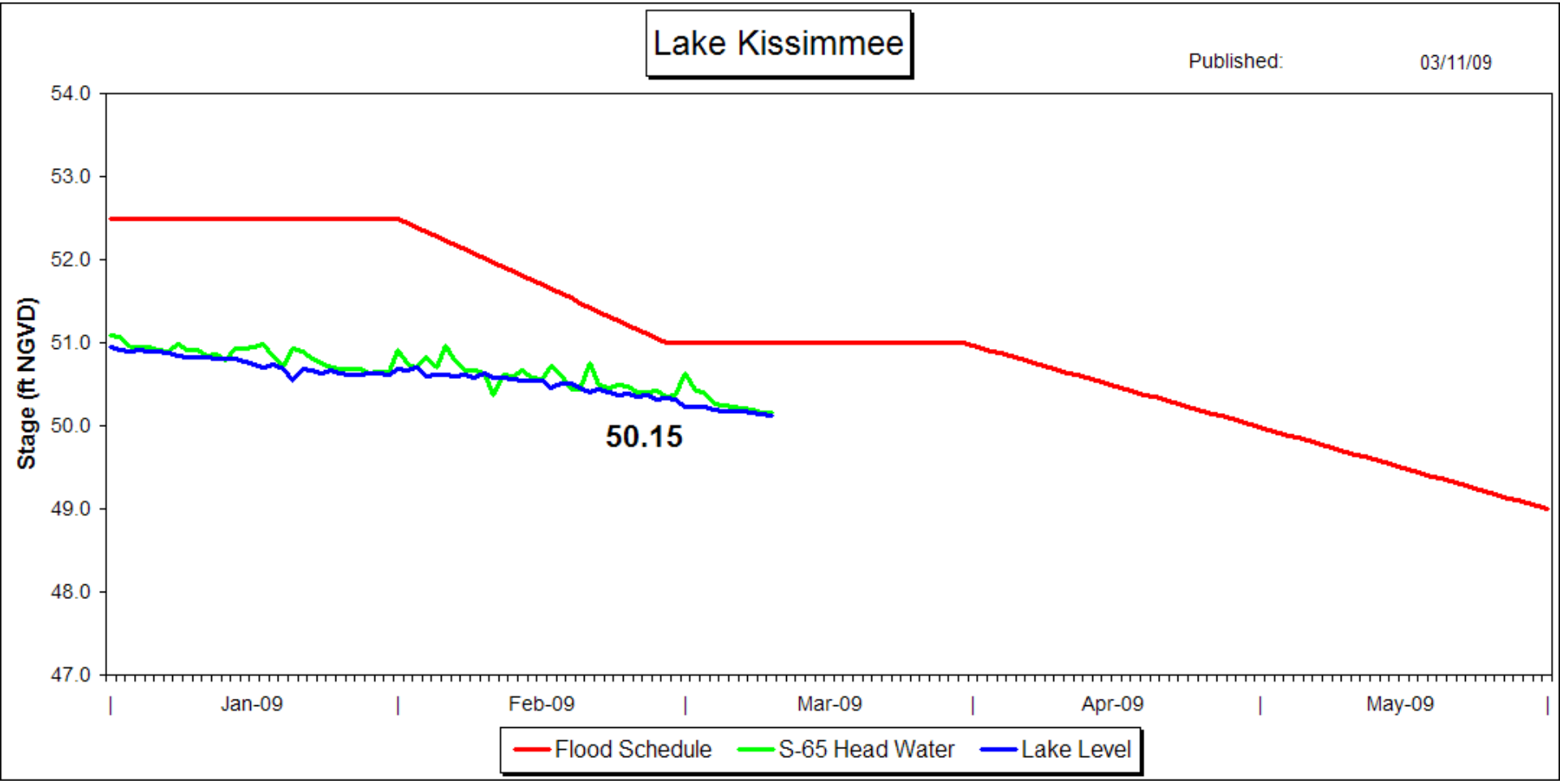
back


East Lake Tohopekaliga
Published
3/11/2009
59.0
58.0
57.0
56.0
55.0
54.0
53.0
52.0
51.0
Stage (Ft.NGVD)
57.56
Jan-09
Feb-09
Mar-09
Apr-09
May-09
Flood Regulation
Lake Level
S-59 HW

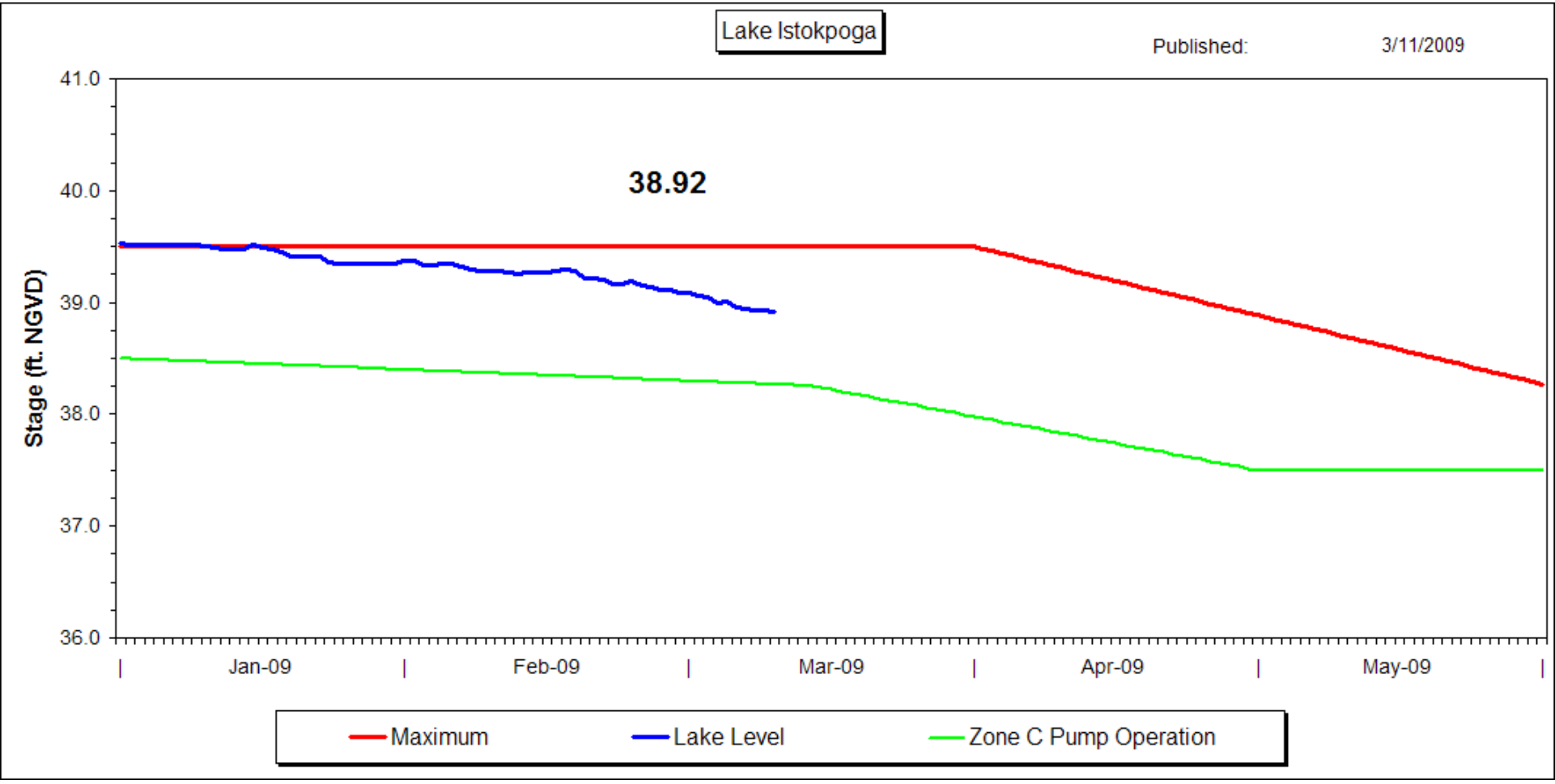
back


Lake Tohopekaliga
Published 3/11/2009
58.0
57.0
56.0
55.0
54.0
53.0
52.0
51.0
50.0
Stage (Ft.NGVD)
54.46
Jan-09
Feb-09
Mar-09
Apr-09
May-09
Flood Regulation
Lake Level

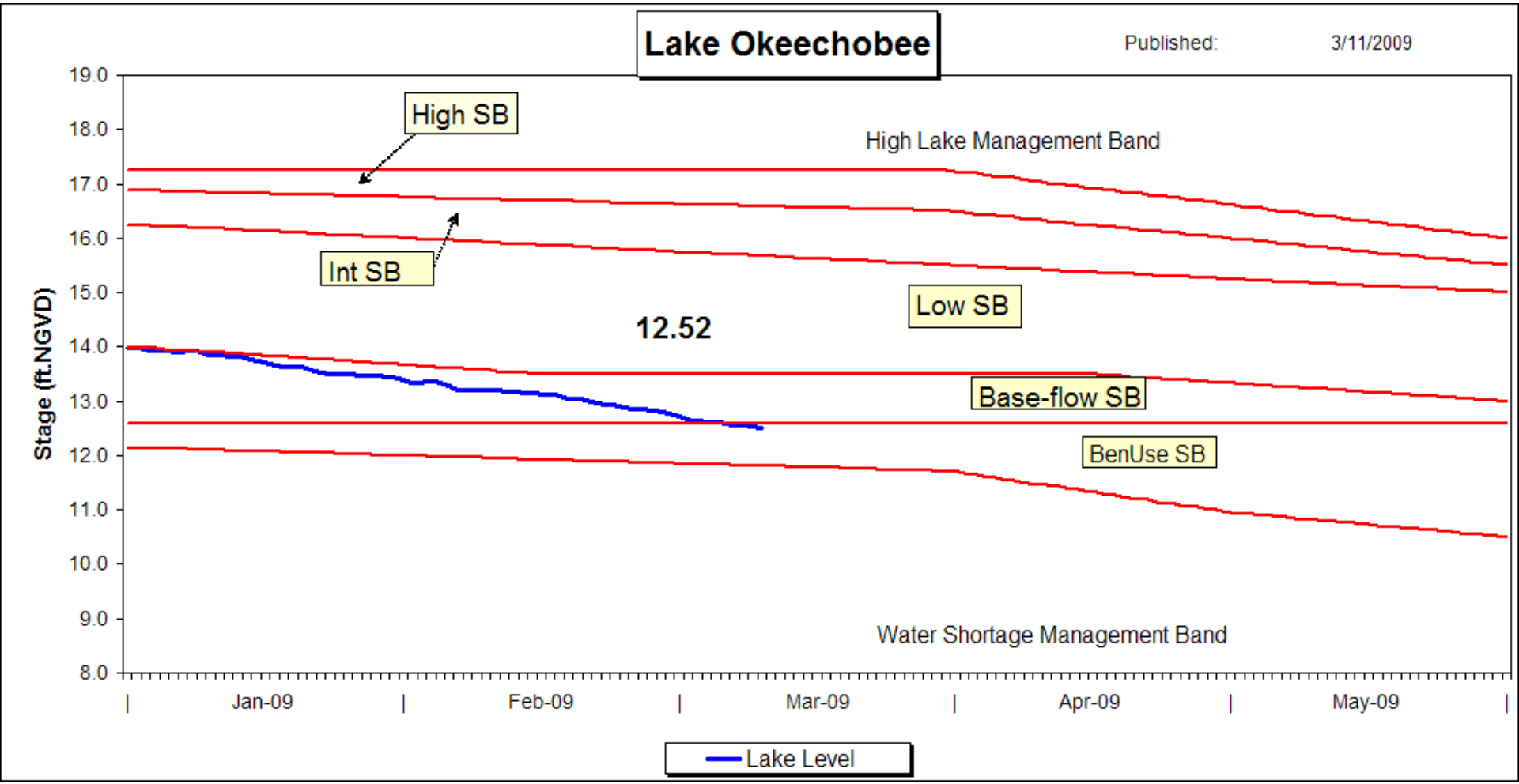
back


Lake Kissimmee
Published:
03/11/09
54.0
53.0
52.0
51.0
50.0
49.0
48.0
47.0
Stage (ft NGVD)
50.15
Jan-09
Feb-09
Mar-09
Apr-09
May-09
Flood Schedule
S-65 Head Water
Lake Level

back


Lake Istokpoga
Published:
3/11/2009
38.92
Stage (ft. NGVD)
41.0
40.0
39.0
38.0
37.0
36.0
Jan-09
Feb-09
Mar-09
Apr-09
May-09
Maximum
Lake Level
Zone C Pump Operation

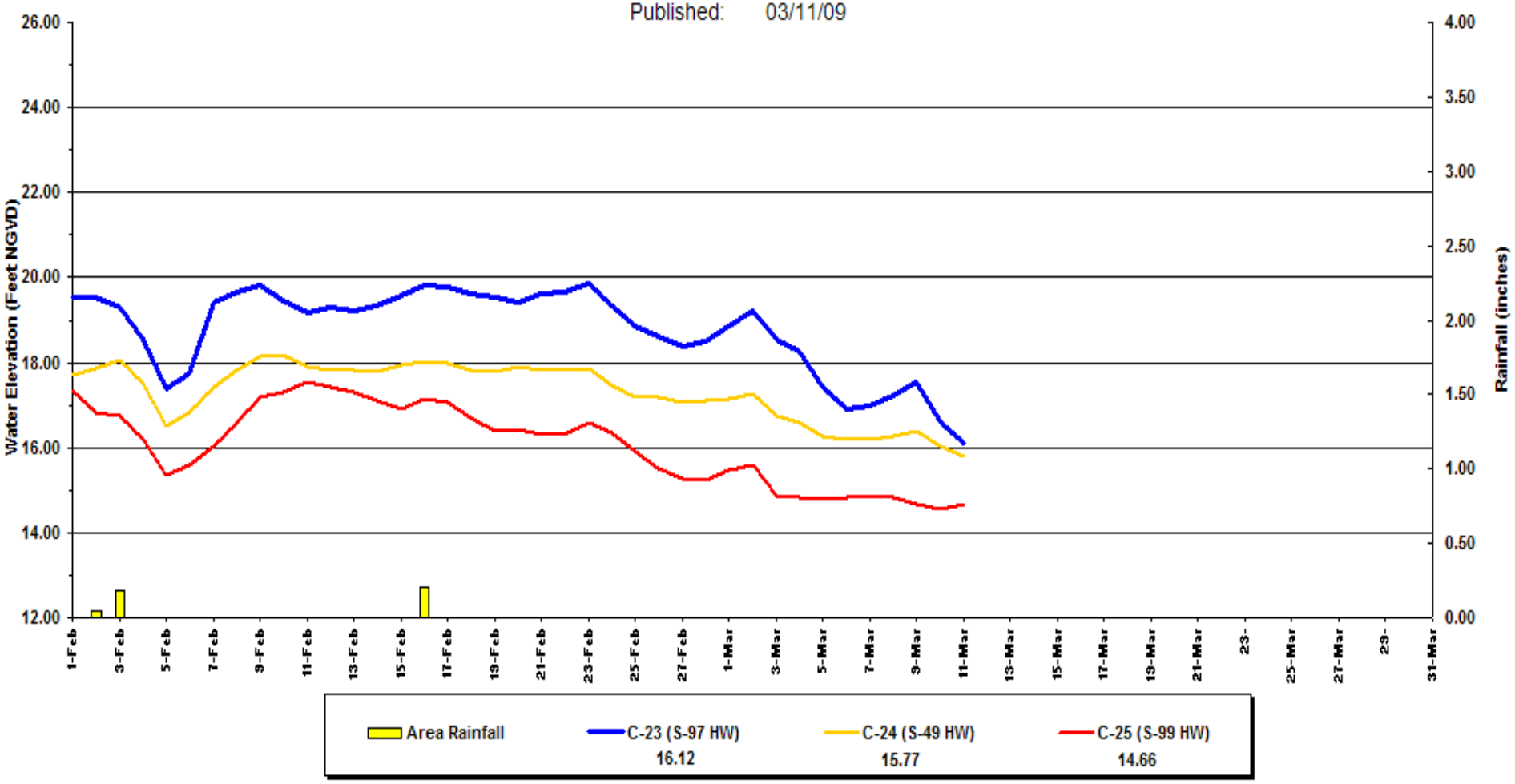
back


Lake Okeechobee
Published: 3/11/2009
High SB
High Lake Management Band
Int SB
Low SB
12.52
Base-flow SB
BenUse SB
Water Shortage Management Band
Stage (ft.NGVD)
19.0
18.0
17.0
16.0
15.0
14.0
13.0
12.0
11.0
10.0
9.0
8.0
Jan-09
Feb-09
Mar-09
Apr-09
May-09
Lake Level

back

St Lucie Structures on C23, C24 & C25 Canals

Published: 03/11/09



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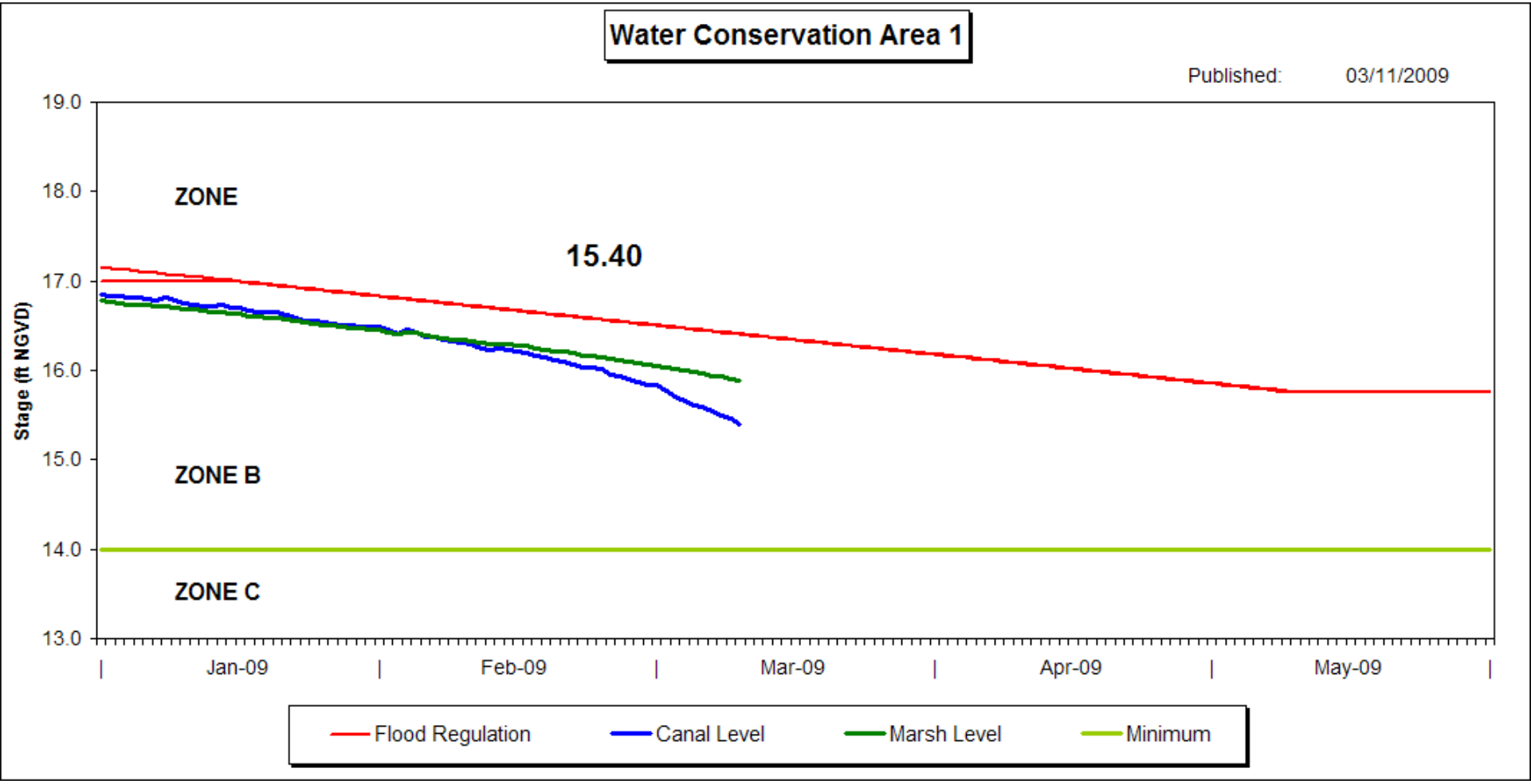
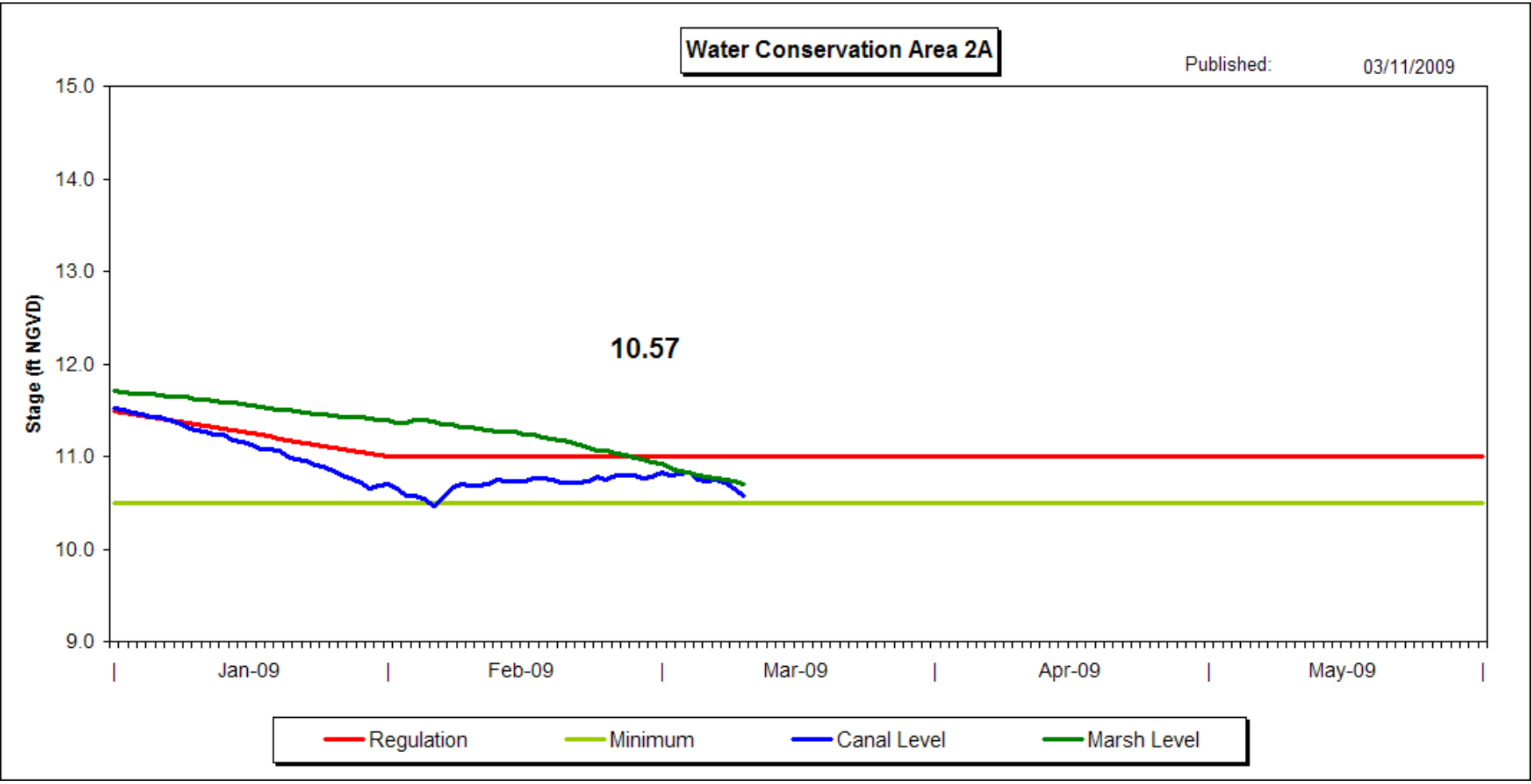
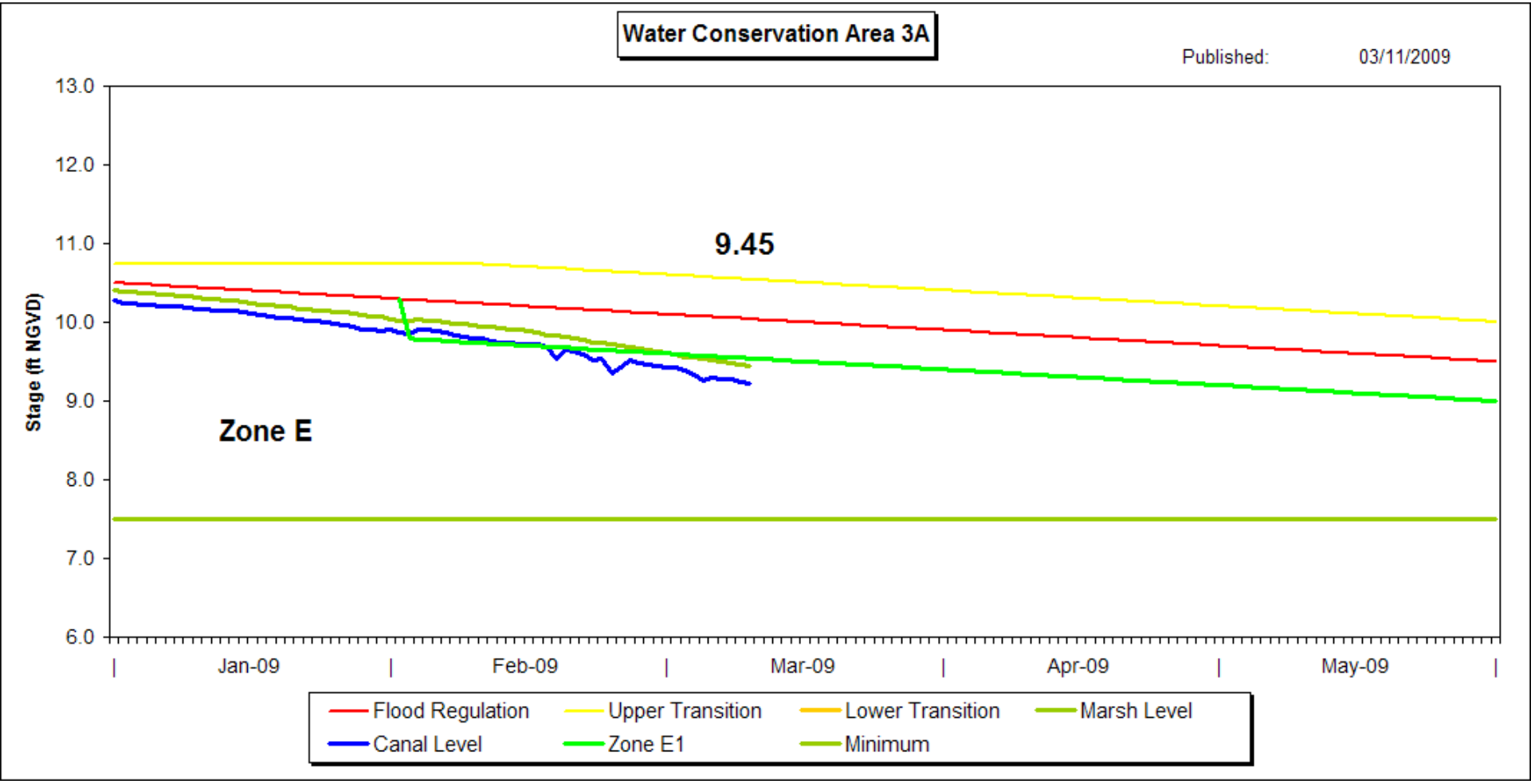

Water Conservation Area 1
Published: 03/11/2009
19.0
18.0
17.0
16.0
15.0
14.0
13.0
Stage (ft NGVD)
ZONE
15.40
ZONE B
ZONE C
Jan-09
Feb-09
Mar-09
Apr-09
May-09
Flood Regulation
Canal Level
Marsh Level
Minimum

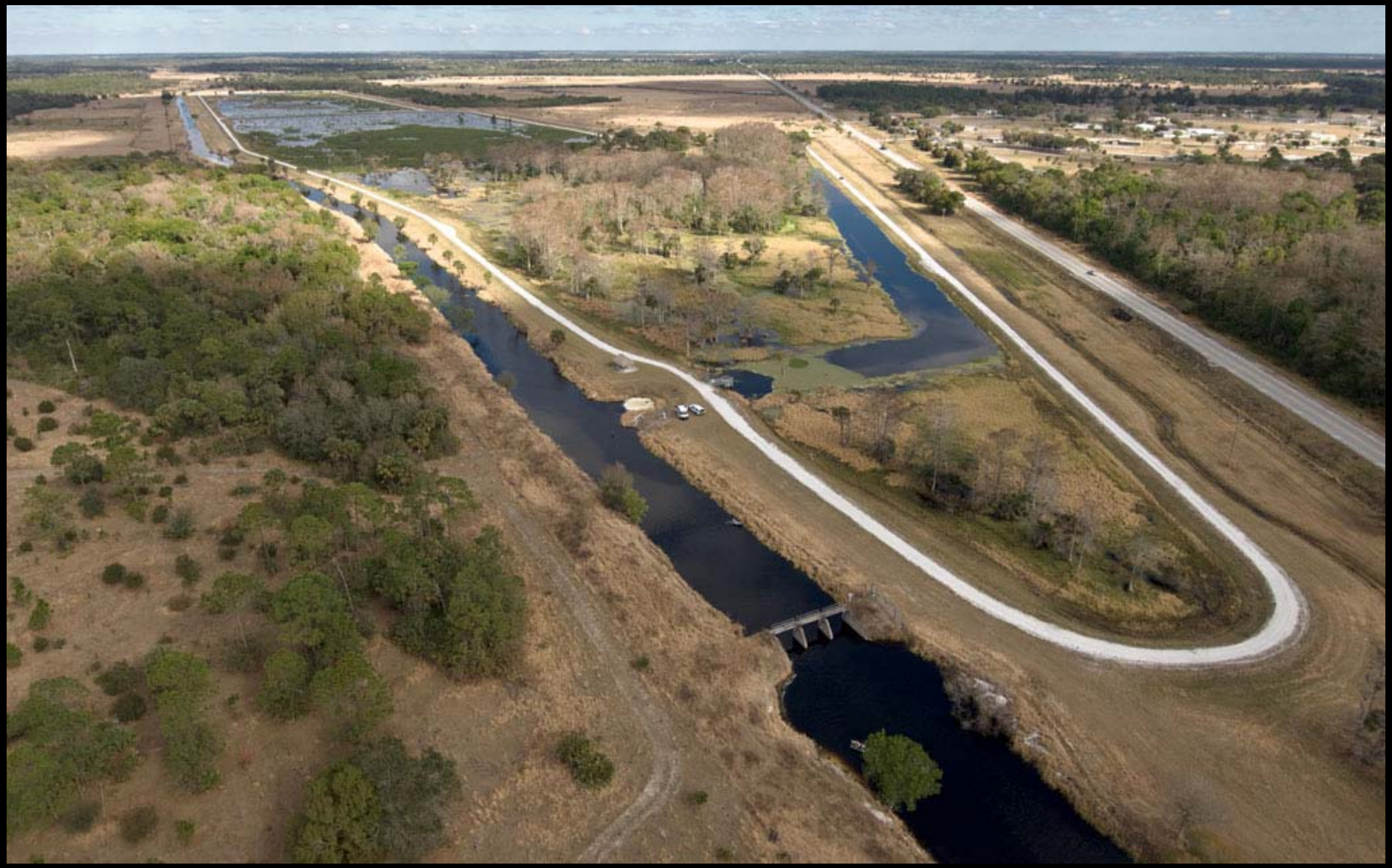
back


Water Conservation Area 2A
Published:
03/11/2009
15.0
14.0
13.0
12.0
11.0
10.0
9.0
Stage (ft NGVD)
10.57
Jan-09
Feb-09
Mar-09
Apr-09
May-09
Regulation
Minimum
Canal Level
Marsh Level

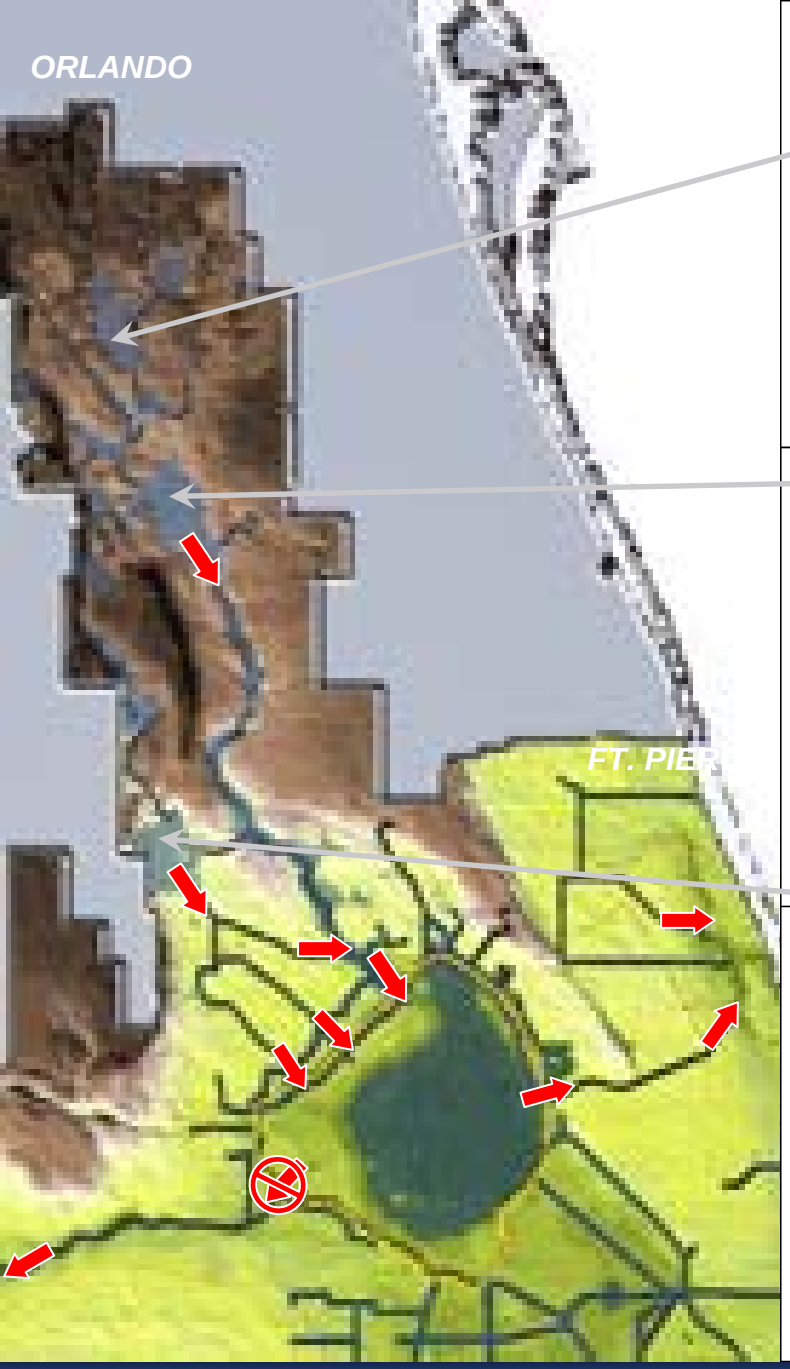
back

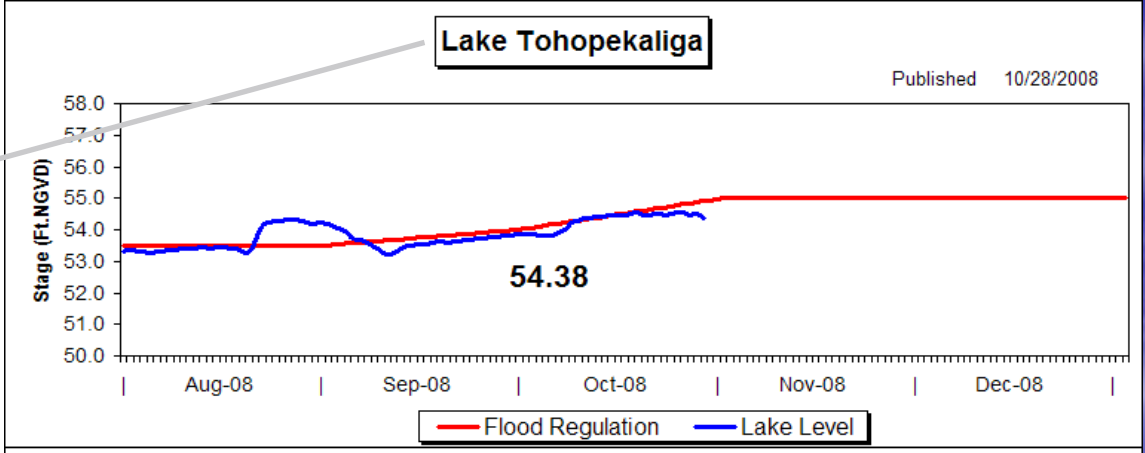

Water Conservation Area 3A
Published: 03/11/2009
Stage (ft NGVD)
13.0
12.0
11.0
10.0
9.0
8.0
7.0
6.0
9.45
Zone E
Jan-09
Feb-09
Mar-09
Apr-09
May-09
Flood Regulation
Upper Transition
Lower Transition
Marsh Level
Canal Level
Zone E1
Minimum

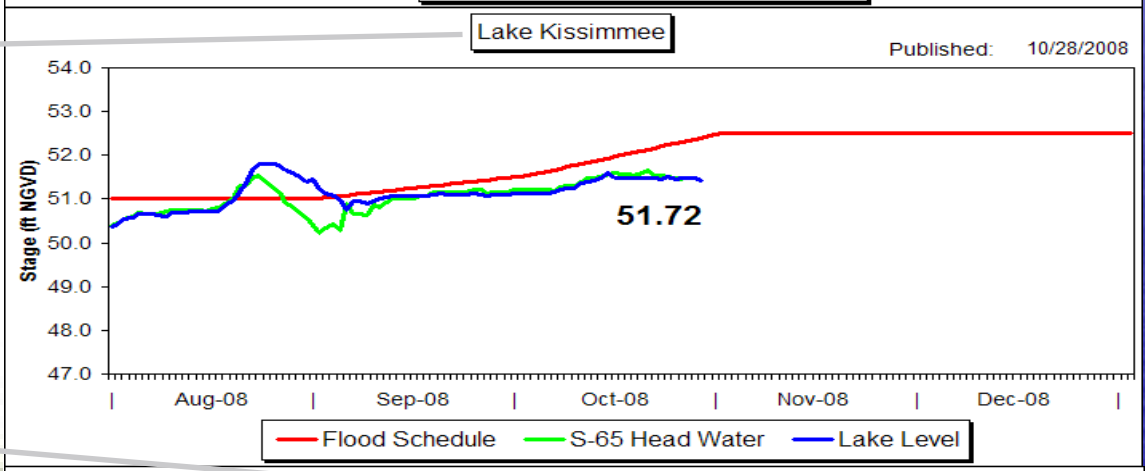
back

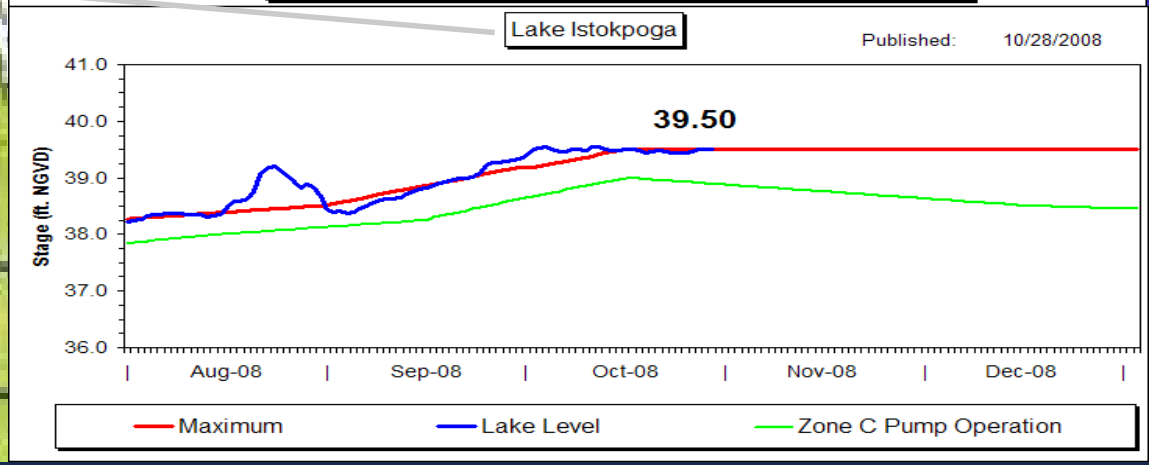


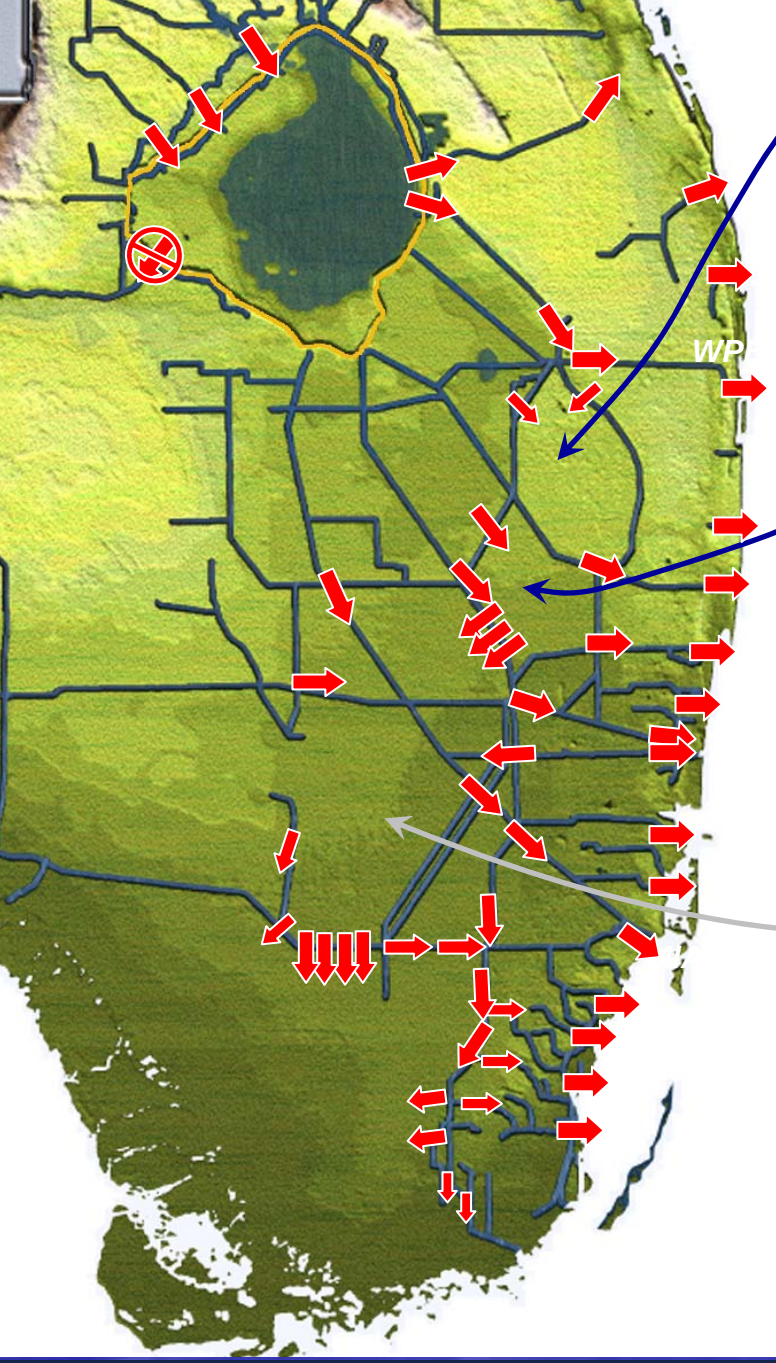
02/10/09 Taylor Creek STA Stormwater Treatment Area Okeechobee – Pat Lynch

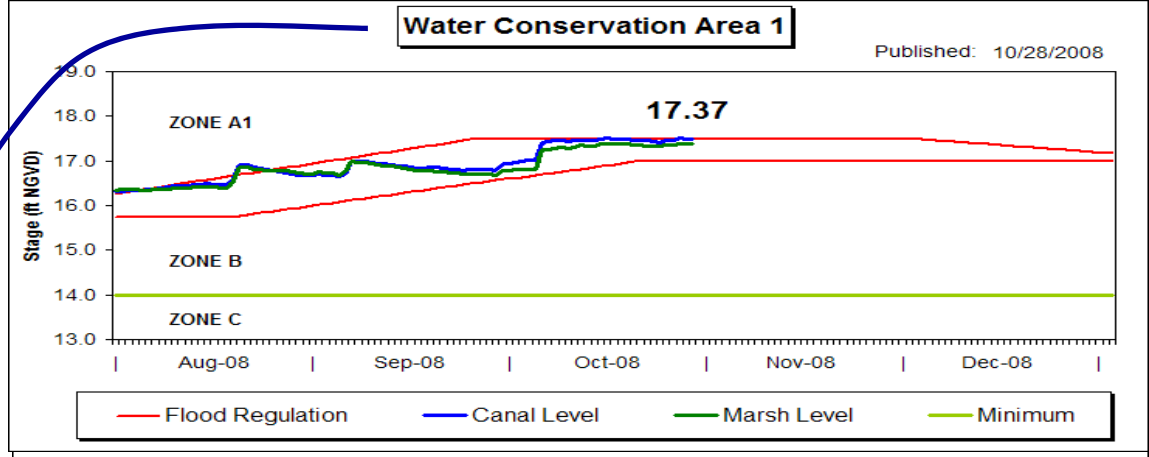

ORLANDO
FT. PIER

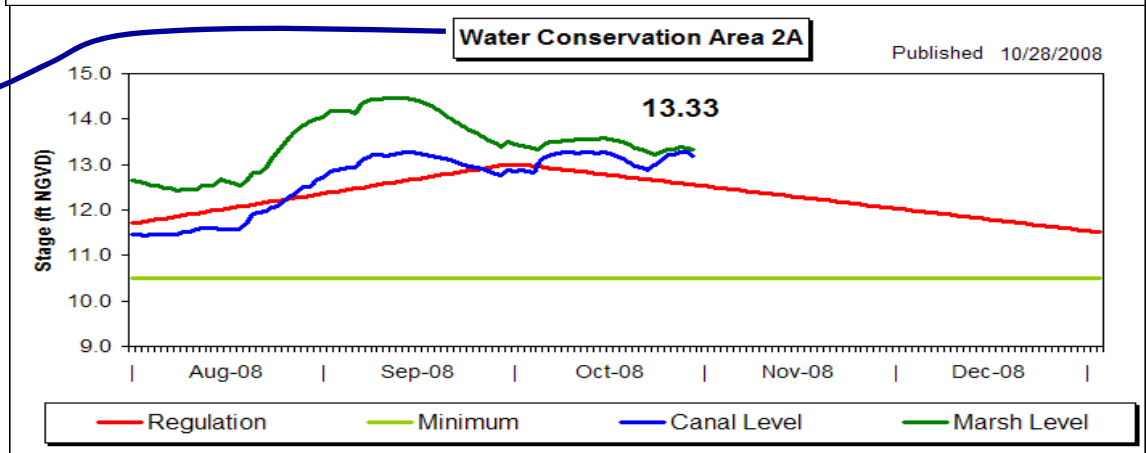

Lake Tohopekaliga
Published 10/28/2008
Stage (Ft.NGVD)
58.0
57.0
56.0
55.0
54.0
53.0
52.0
51.0
50.0
54.38
Aug-08
Sep-08
Oct-08
Nov-08
Dec-08
Flood Regulation
Lake Level

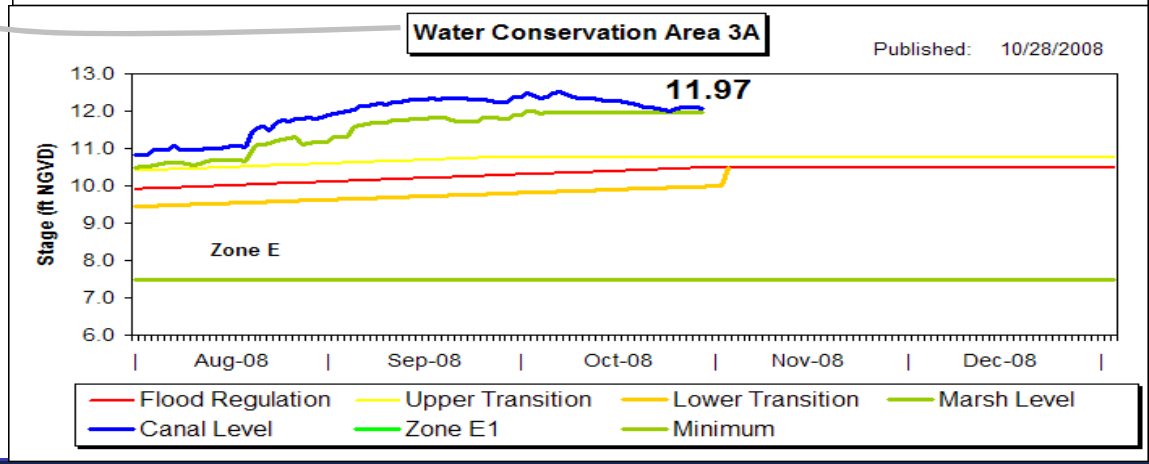

Lake Kissimmee
Published: 10/28/2008
Stage (ft NGVD)
54.0
53.0
52.0
51.0
50.0
49.0
48.0
47.0
51.72
Aug-08
Sep-08
Oct-08
Nov-08
Dec-08
Flood Schedule
S-65 Head Water
Lake Level


Lake Istokpoga
Published: 10/28/2008
Stage (ft. NGVD)
41.0
40.0
39.0
38.0
37.0
36.0
39.50
Aug-08
Sep-08
Oct-08
Nov-08
Dec-08
Maximum
Lake Level
Zone C Pump Operation

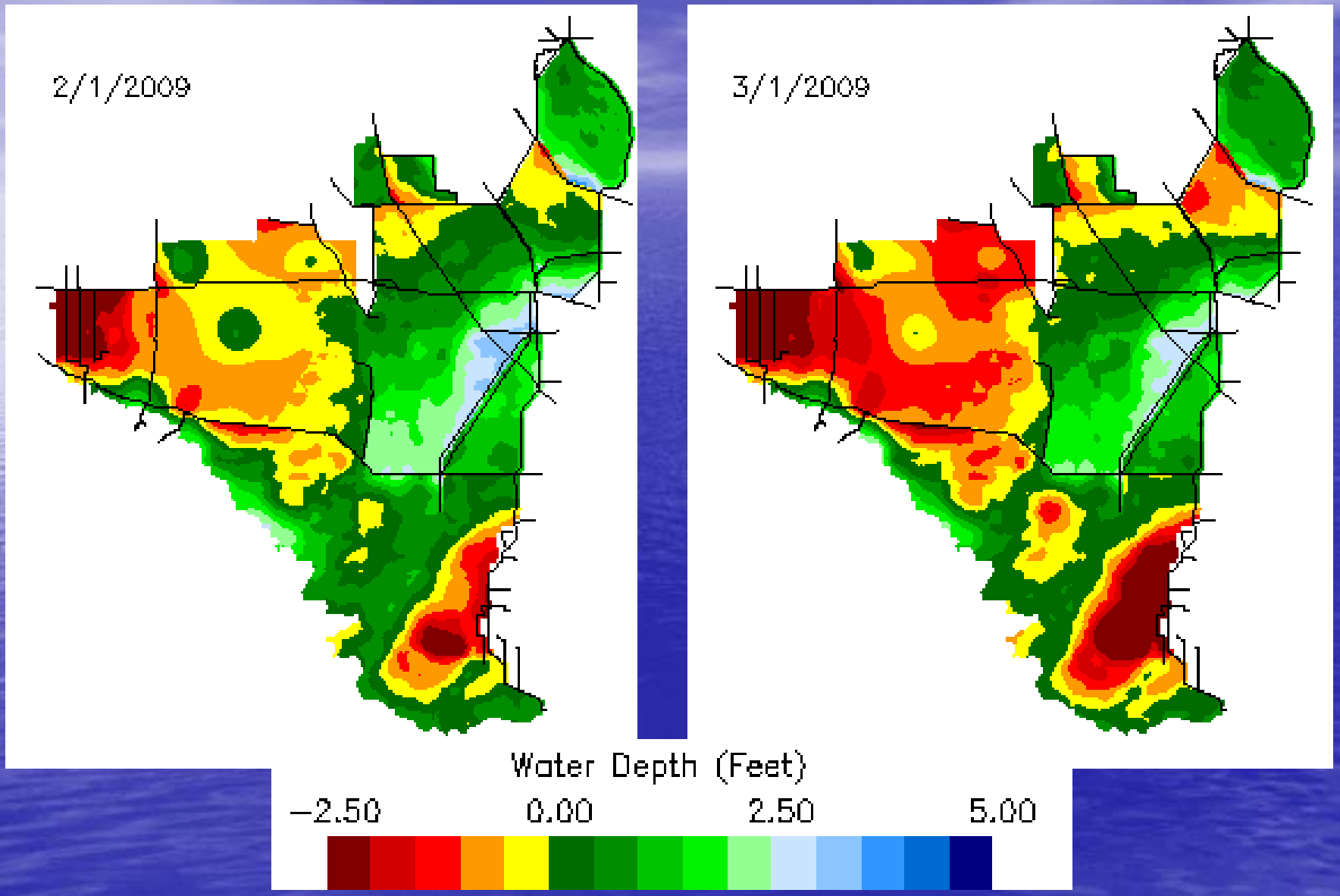

WP


Water Conservation Area 1
Published: 10/28/2008
17.37
ZONE A1
ZONE B
ZONE C
Stage (ft NGVD)
19.0
18.0
17.0
16.0
15.0
14.0
13.0
Aug-08
Sep-08
Oct-08
Nov-08
Dec-08
Flood Regulation
Canal Level
Marsh Level
Minimum


Water Conservation Area 2A
Published 10/28/2008
13.33
Stage (ft NGVD)
15.0
14.0
13.0
12.0
11.0
10.0
9.0
Aug-08
Sep-08
Oct-08
Nov-08
Dec-08
Regulation
Minimum
Canal Level
Marsh Level


Water Conservation Area 3A
Published: 10/28/2008
11.97
Zone E
Stage (ft NGVD)
13.0
12.0
11.0
10.0
9.0
8.0
7.0
6.0
Aug-08
Sep-08
Oct-08
Nov-08
Dec-08
Flood Regulation
Upper Transition
Lower Transition
Marsh Level
Canal Level
Zone E1
Minimum

Comparison of Everglades Water Depths (Feb & March 2009)



Source: SFWMD South Florida Water Depth Assessment Tool (SFWDAT)
using data from the SFWMD & USGS National Water Information System

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Lake Okeechobee Evaporation

Month	Actual Lk O Evap (inches)	Avg Lk O Rain (inches)	Actual Rainfall (Inches)
November	3.90	2.66	0.61
December	3.27	2.01	1.03
January	3.65	2.23	0.33
February	4.06	2.19	0.33

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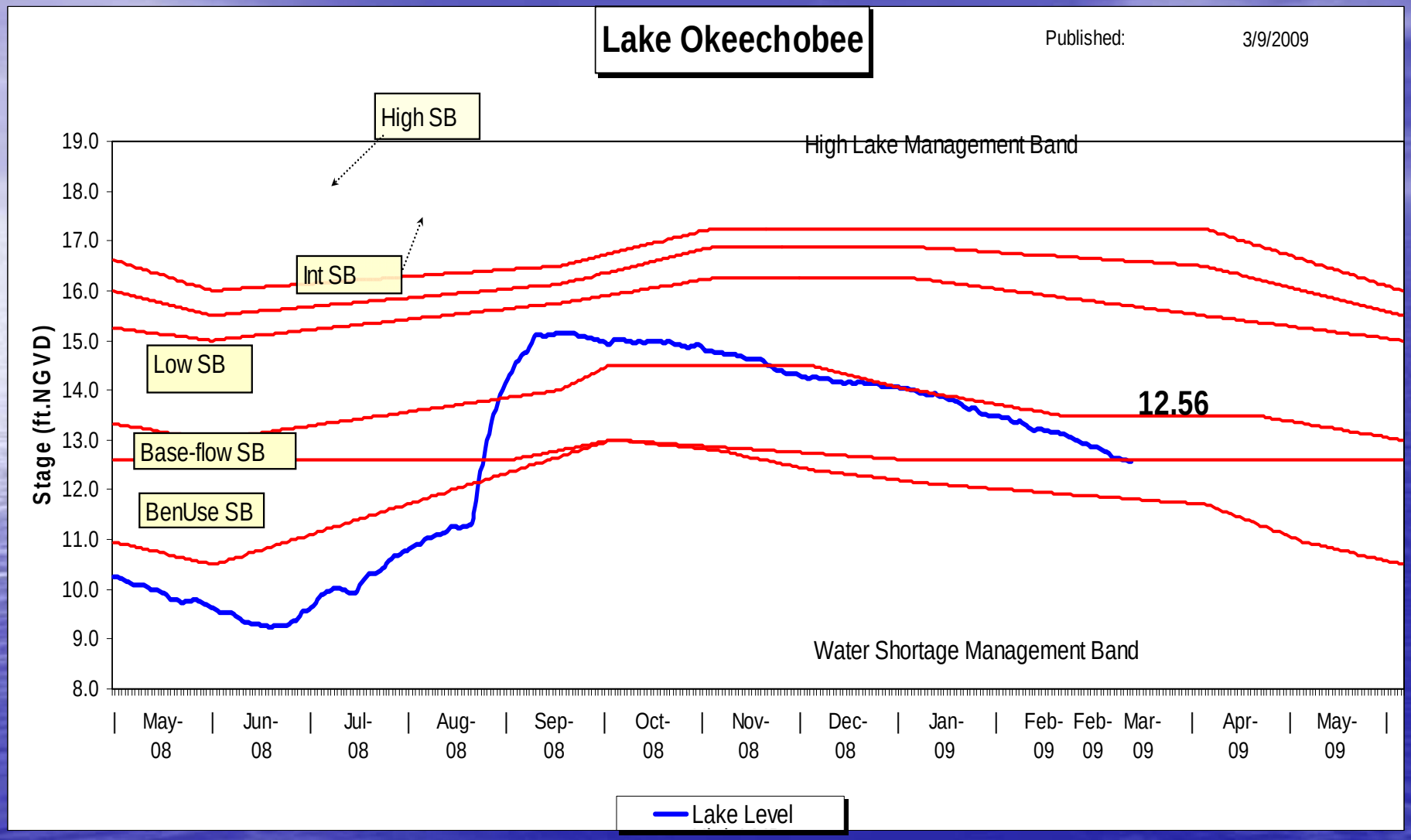
Lake Okeechobee Evaporation

Month	Avg Lk O Evap (inches)	Avg Lk O Rain (inches)	Actual Rainfall (Inches)
March	4.98	2.93	0.01 (1st 12 days)
April	5.81	2.22	?
May	6.11	3.66	?


Lake Okeechobee
Published: 3/9/2009
High SB
Int SB
Low SB
Base-flow SB
BenUse SB
High Lake Management Band
Water Shortage Management Band
12.56
Stage (ft.NGVD)
19.0
18.0
17.0
16.0
15.0
14.0
13.0
12.0
11.0
10.0
9.0
8.0
May-08
Jun-08
Jul-08
Aug-08
Sep-08
Oct-08
Nov-08
Dec-08
Jan-09
Feb-09
Feb-09
Mar-09
Apr-09
May-09
Lake Level

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