SOUTH FLORIDA WATER MANAGEMENT DISTRICT

Dynamic Position Analysis for September 1, 2018

SFWMM Model Simulation of 41 years (1965-2005)

Modeling Assumptions
Discussion of UPA Results

- Lake Okeechobee Projection within the Next 2 Months
- Lake Okeechobee
  - Percentiles
  - Dry Years
  - Wet Years
  - AMO / ENSO Sub-Sampling
  - Spaghetti Plot
  - All ENSO Years
- Lake Okeechobee Probability Results
  - Zone Probability Graphs
  - Probability Band Width Graph
  - Zone Probability Table
  - LORS Releases to the Estuaries
  - LORS Releases to the WCA's
- WCA-1
  - Percentiles
  - Dry Years
  - Wet Years
  - Canal Sub-Sampling Years
  - AMO / ENSO Sub-Sampling
- WCA-2A
  - Percentiles
  - Dry Years
  - Wet Years
  - Canal Sub-Sampling Years
  - AMO / ENSO Sub-Sampling
- WCA-3A
  - Percentiles
  - Dry Years
  - Wet Years
  - Canal Sub-Sampling Years
  - AMO / ENSO Sub-Sampling
- Upper Kissimmee Stage and Flow
  - Lake Kissimmee Stage at S65
  - Lake Toho Stage at S61

September 1, 2018
Dynamic Position Analysis
Using Hybrid LOWSM
Modeling Assumptions

- September 1, 2018 DPA is based on regular Position Analysis applying V6.7.4 of the SFWMM, and assuming the current Lake Okeechobee Net Inflow Outlook (LONINO) for each year simulated. It is based on historical climatic conditions spanning the period 1965-2005
- The model is reinitialized August 1st of each year
- The Lake Okeechobee operations follow the Lake Okeechobee Regulation Schedule (LORS2008). Modeling assumptions consistent with modeling performed for LORS-2008 Supplemental, Environmental Impact Statement (SEIS).
- LOK Temporary Forward Pump operations will be in place, whenever necessary, to improve water supply deliveries from the Lake under low Lake stages.
- STAs reflect current operational conditions
- Lake Okeechobee Water Shortage Management (LOWSM) is included in the simulation which reflects the currently approved 40E-21 and 40E-22 water shortage rules.
- Water supply restrictions simulated for the urban areas reflect current District water shortage management policies.
- Wet and Dry years selected by examining all years and choosing the wettest or driest years in both near and far-term.
- ENSO-neutral conditions are present. There is ~60% chance of El Niño in fall (September – November), increasing to ~70% during winter 2018-19.

Lake Okeechobee Water Shortage Triggering Line									
01/01	03/31	04/30	05/30	05/31	09/30	10/01	10/31	11/30	12/31
12.15	11.70	10.95	10.50	10.50	13.00	13.00	12.80	12.40	12.16

- S-65E inflows entering Lake Okeechobee in the SFWMM simulation were obtained by adding S-65 flows, obtained from the UK-OPS simulation in a PA mode, and local runoff contribution from the Lower Kissimmee, computed as the difference of S65E and S65 historical flows for the period 1965-2005. Runoff contribution on any given day of the current PA month is adjusted based on a correlation function of Palmer Drought Index, rainfall and historical flows.

- Back pumping of excess runoff from the EAA into Lake Okeechobee takes place only under flood control conditions (Interim Action Plan).

- Operations for structures in the SDCS are more consistent with Increment 1.1/1.2

- Temporary deviation of operations:

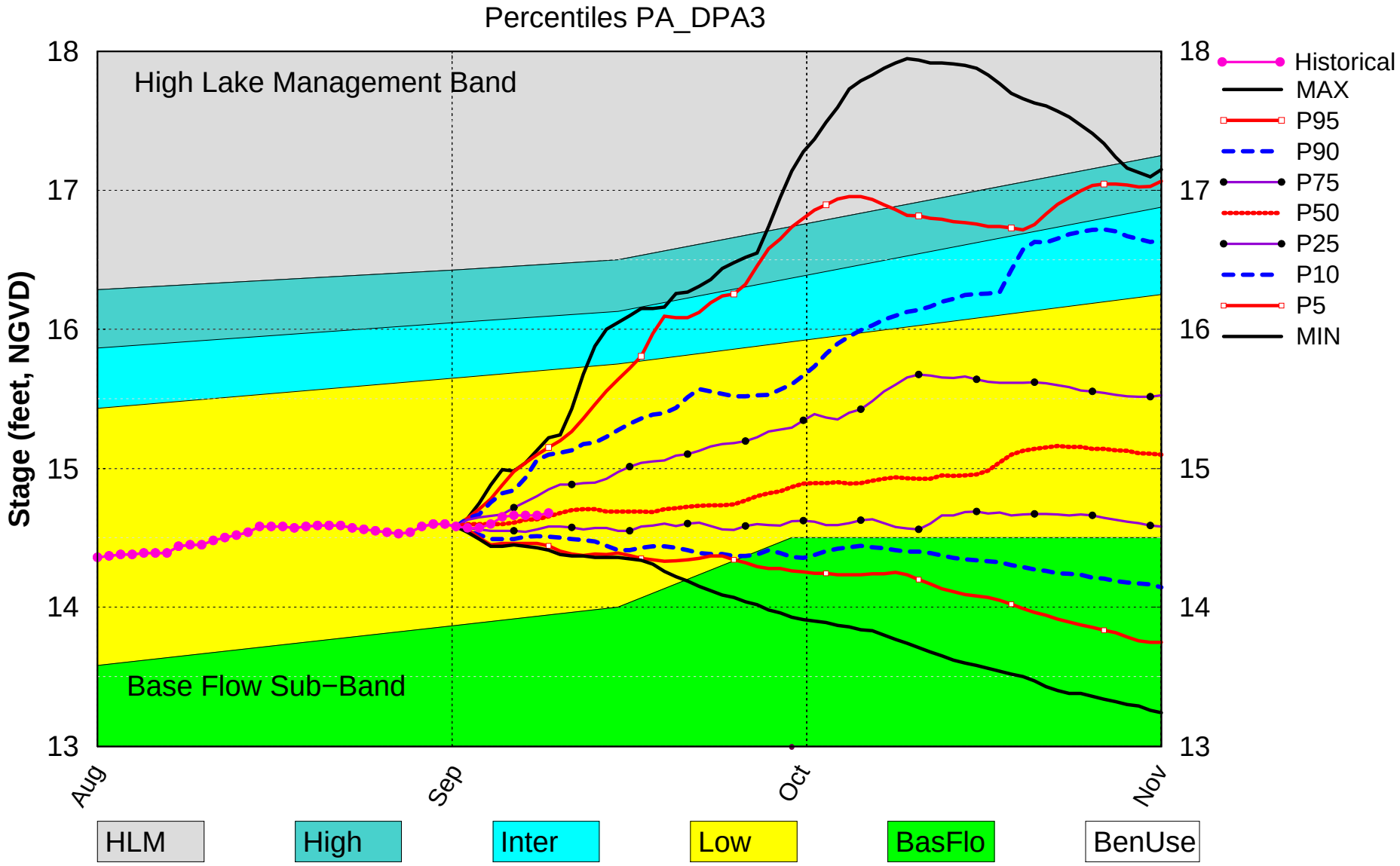
    1. L-29 Canal constraint of 8.3
    2. WCA2A Schedule
    3. S-357 discharging to C-111SD Northern Detention Area

- Information for the initial conditions can be viewed here. Initial stages for specified canals are shown here and gages are shown here.

- Please view the Documentation for the SFWMM.

Back to Operational Planning Main Page

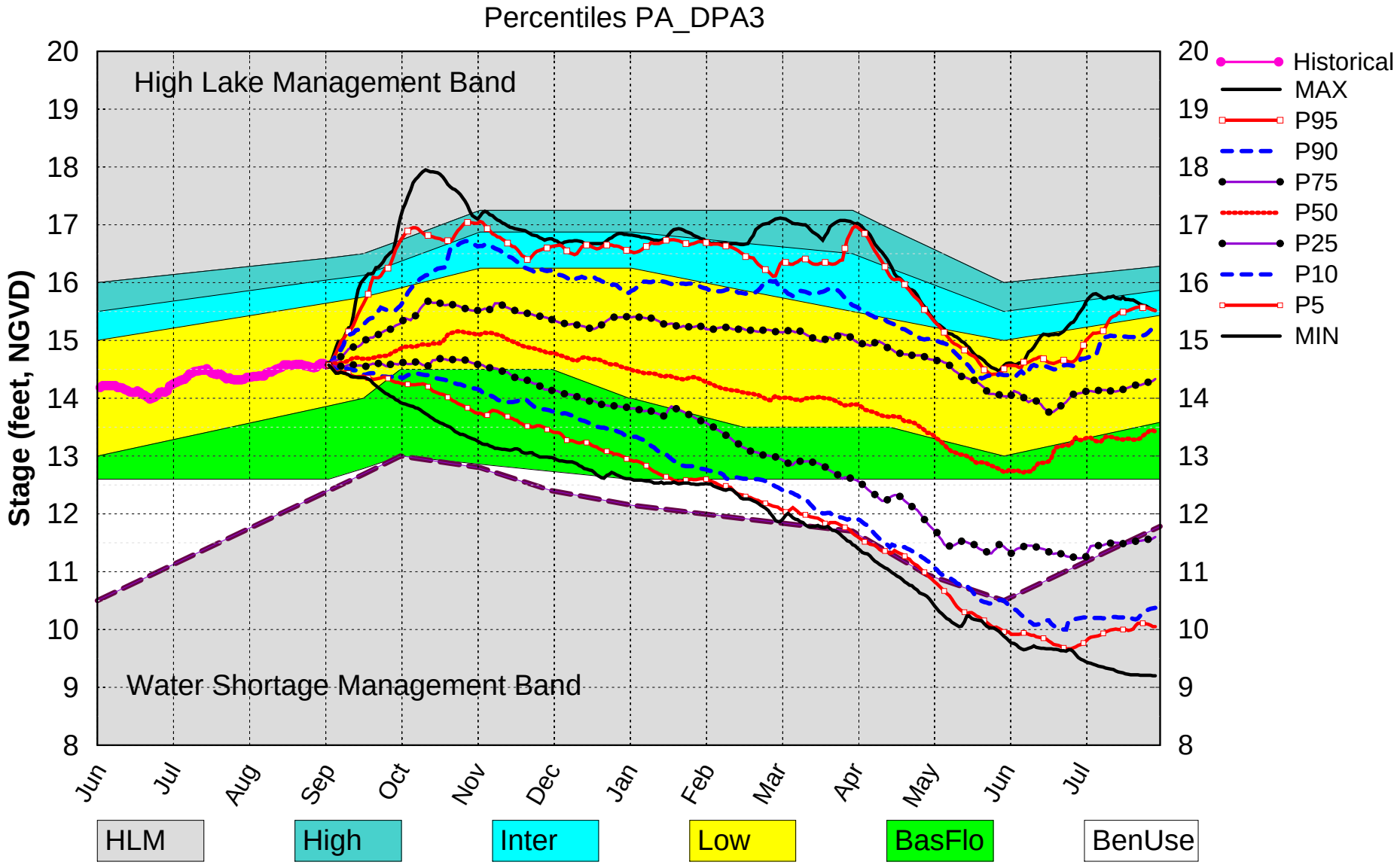
Lake Okeechobee SFWMM Sep 2018 Position Analysis



(See assumptions on the Position Analysis Results website)

Sun Sep 9 16:16:02 2018

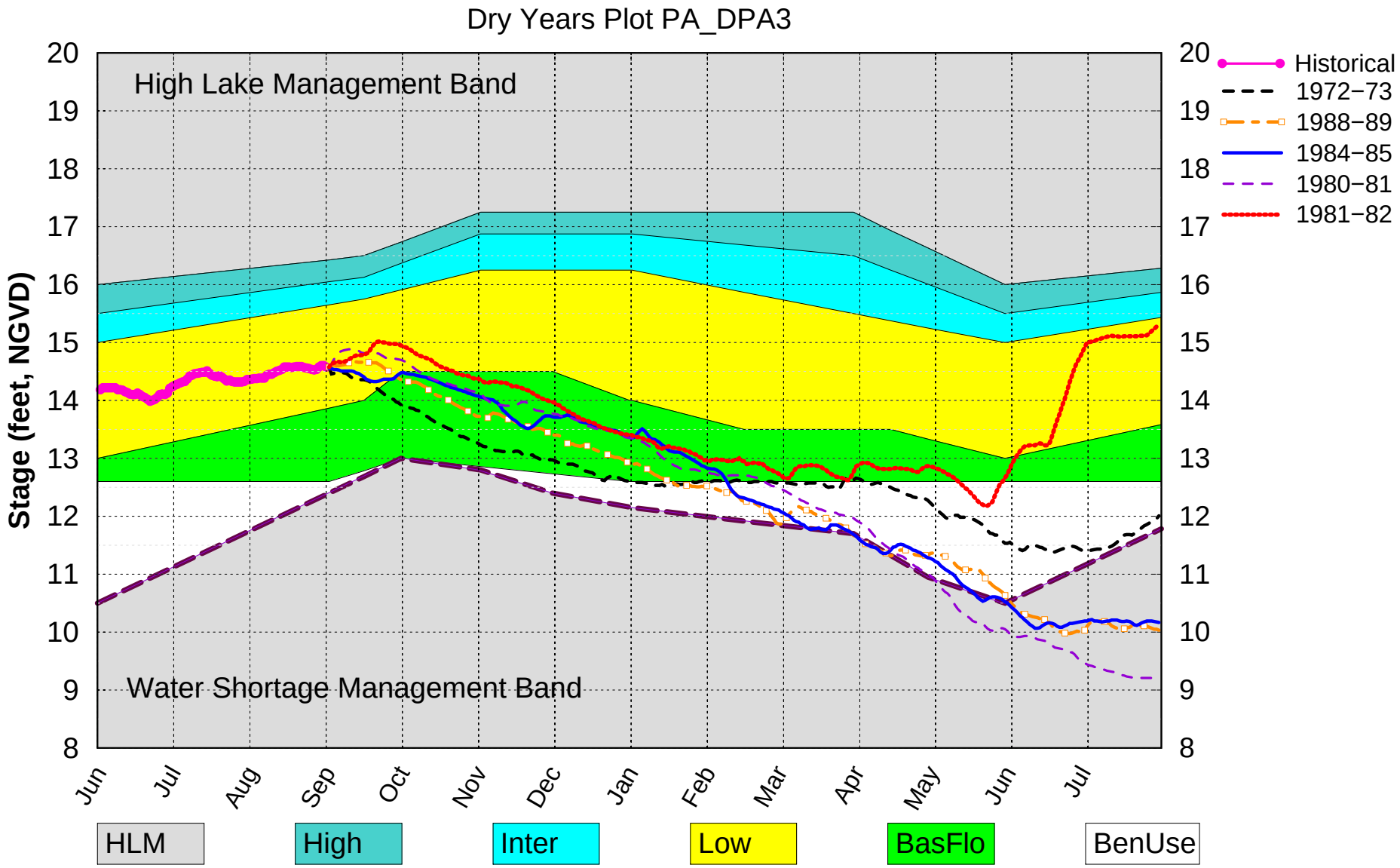
Lake Okeechobee SFWMM Sep 2018 Position Analysis



(See assumptions on the Position Analysis Results website)

Fri Sep 7 16:47:20 2018

Lake Okeechobee SFWMM Sep 2018 Position Analysis



(See assumptions on the Position Analysis Results website)

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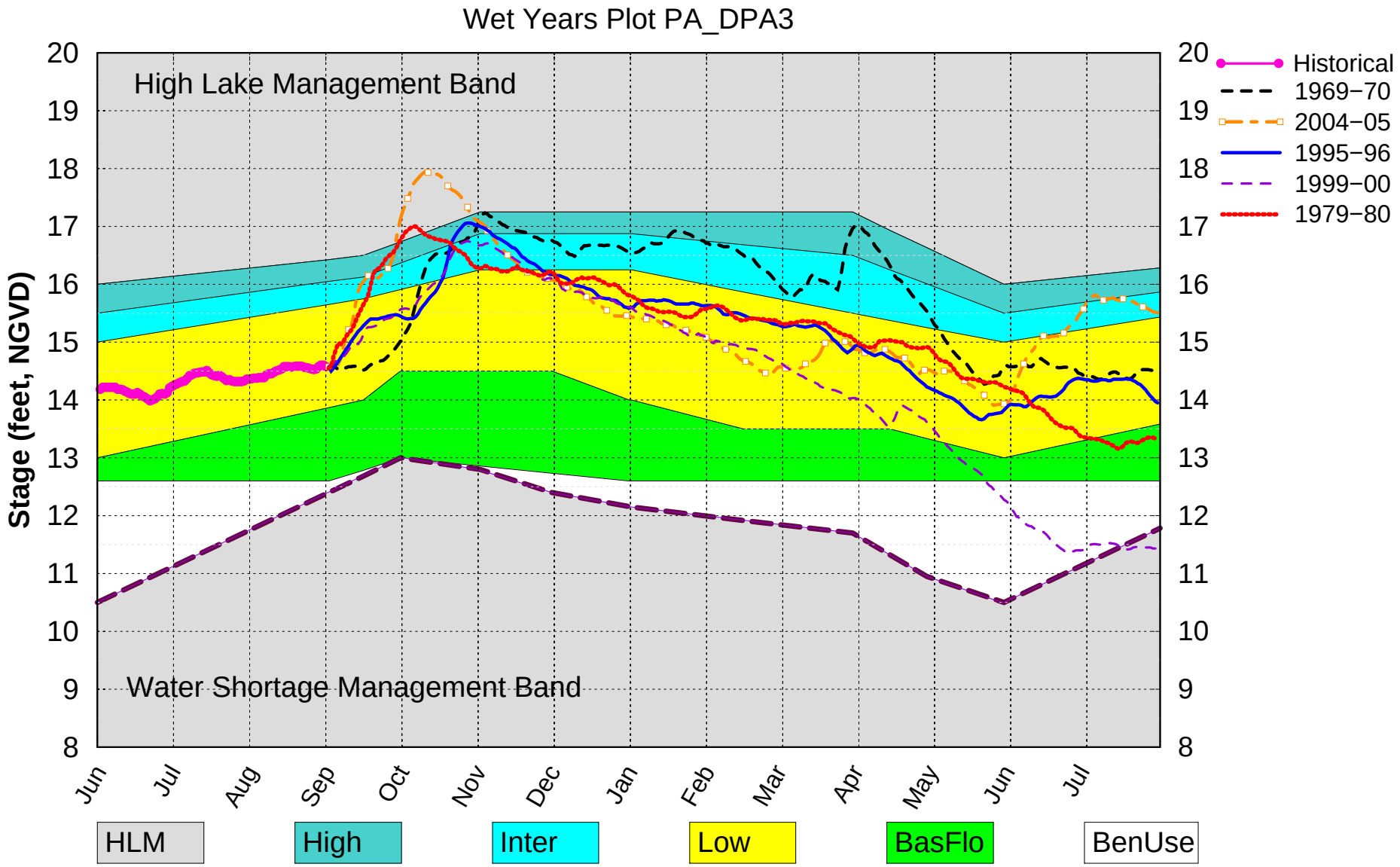
Lake Okeechobee SFWMM Sep 2018 Position Analysis



(See assumptions on the Position Analysis Results website)

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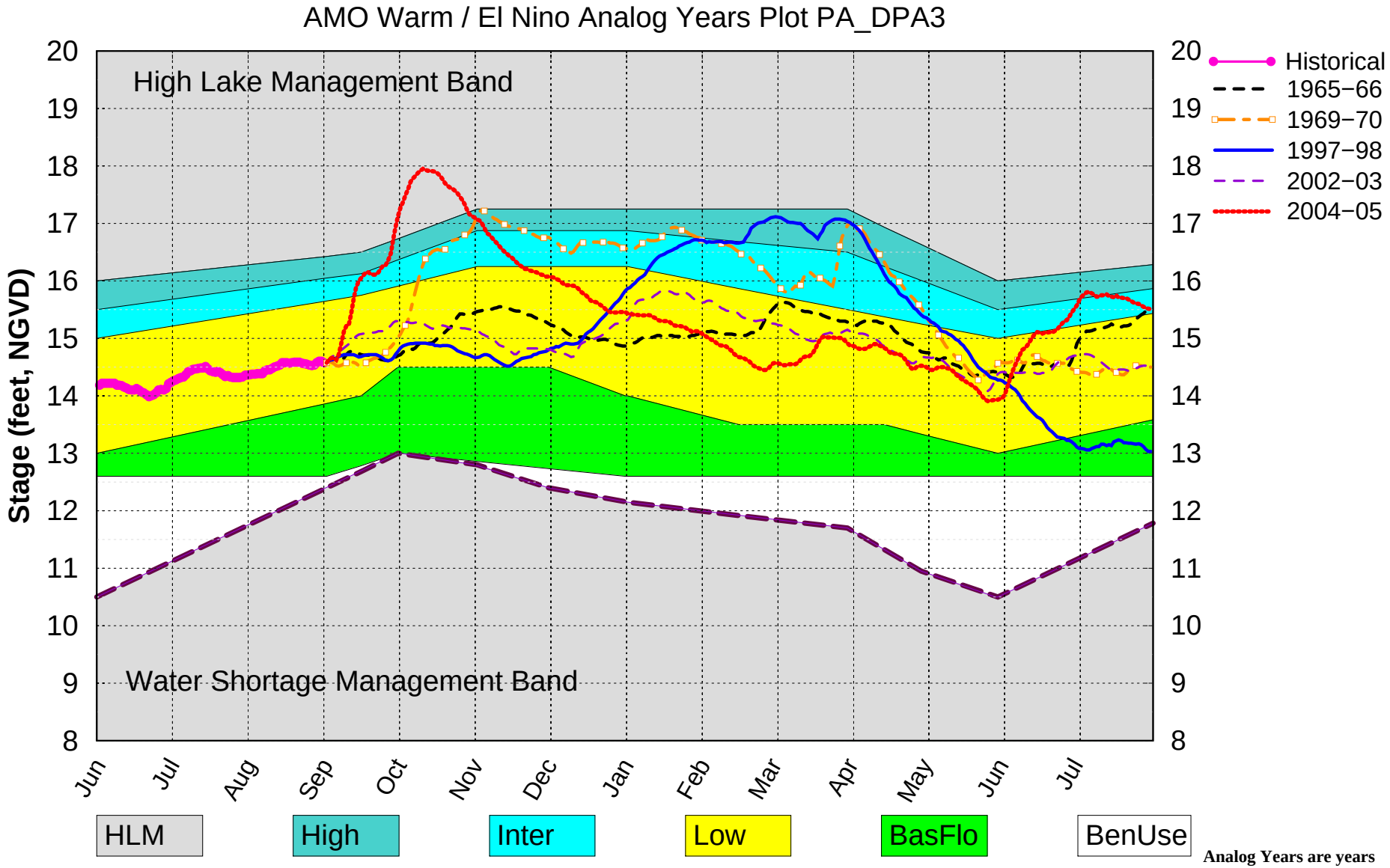
Lake Okeechobee SFWMM Sep 2018 Position Analysis



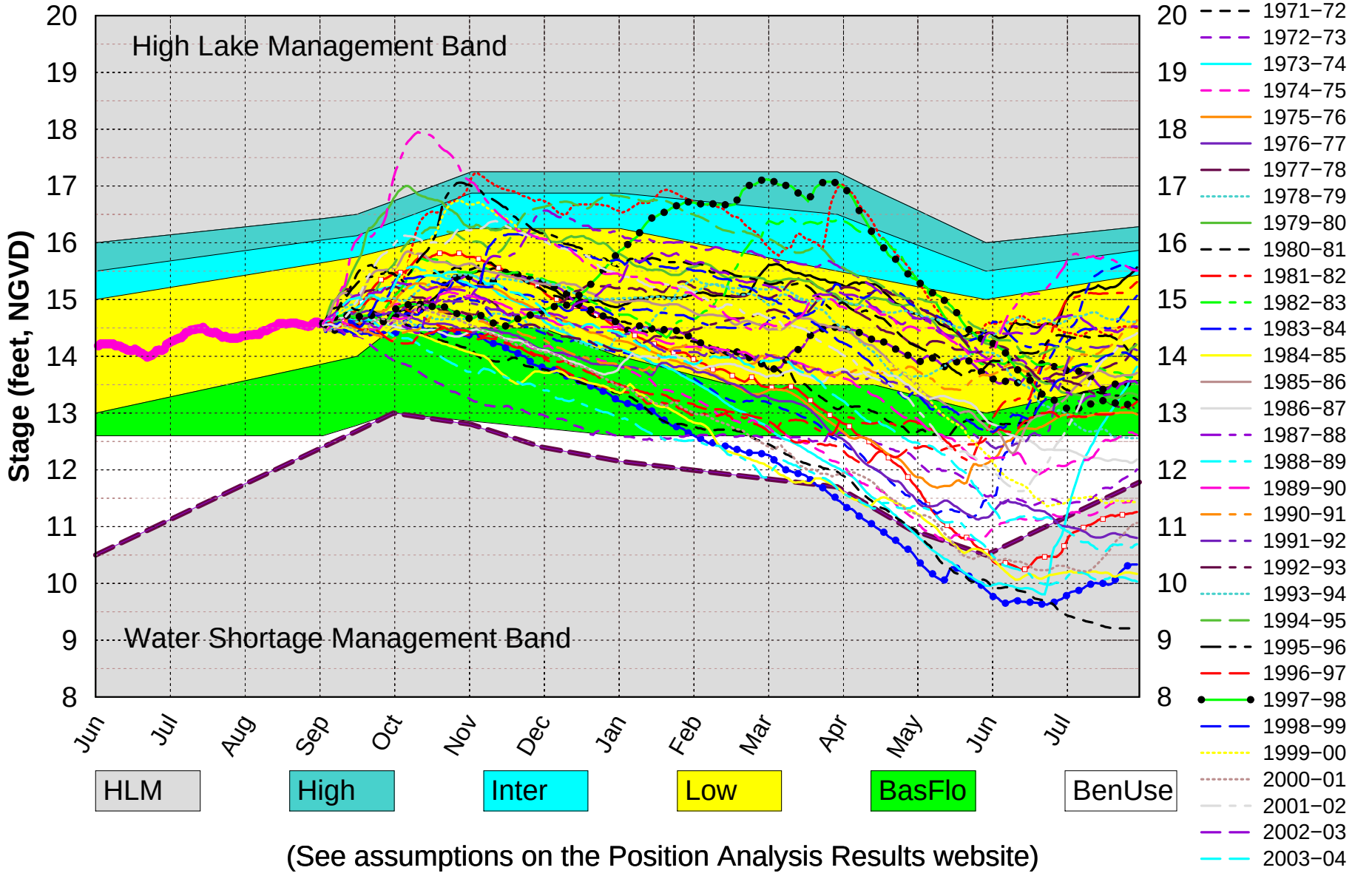
(See assumptions on the Position Analysis Results website)

Analog Years are years with similar climatological conditions to the current year.

Fri Sep 7 11:18:36 2018

Lake Okeechobee SFWMM Sep 2018 Position Analysis

All Simulated Years Plot PA_DPA3



(See assumptions on the Position Analysis Results website)

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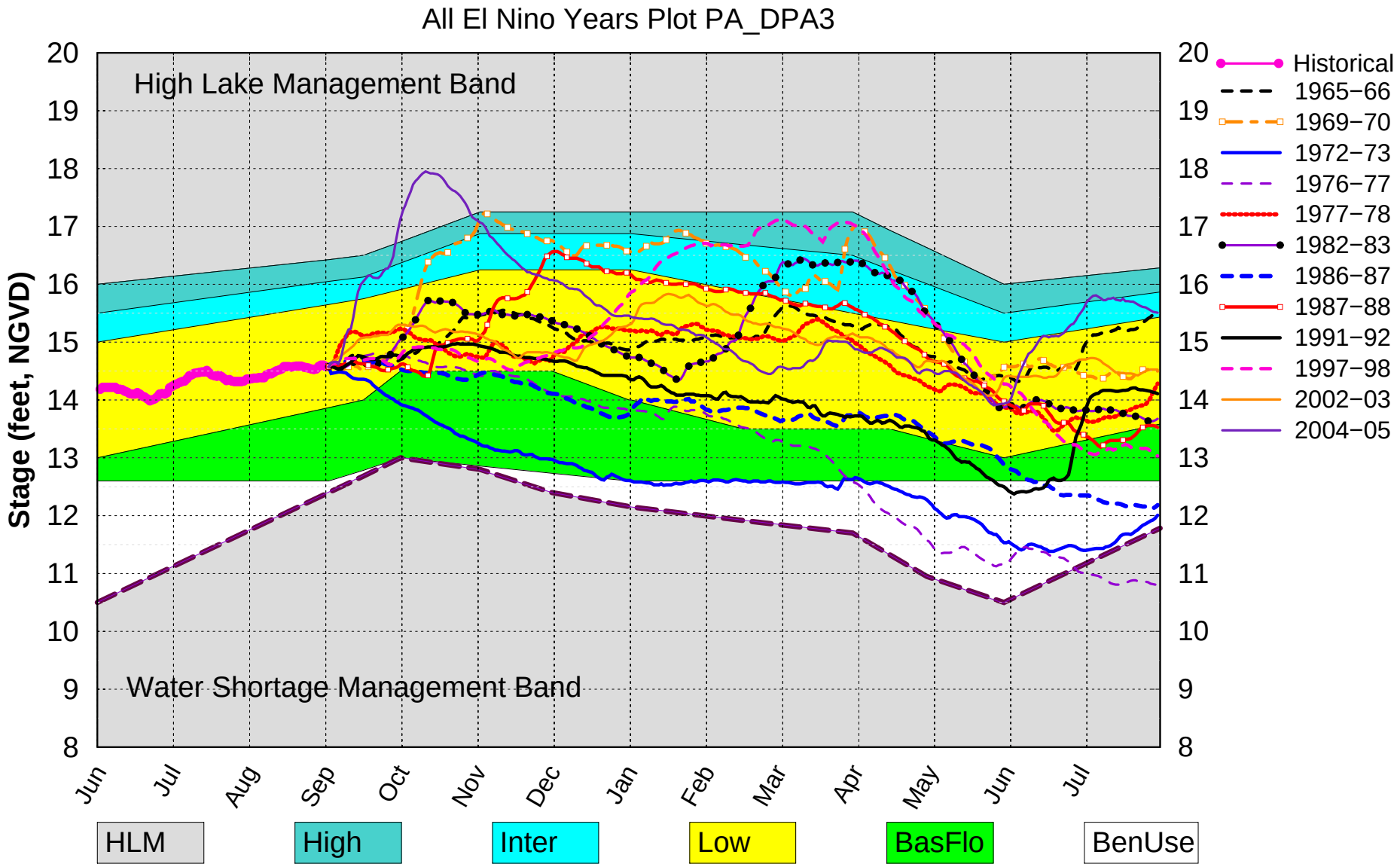
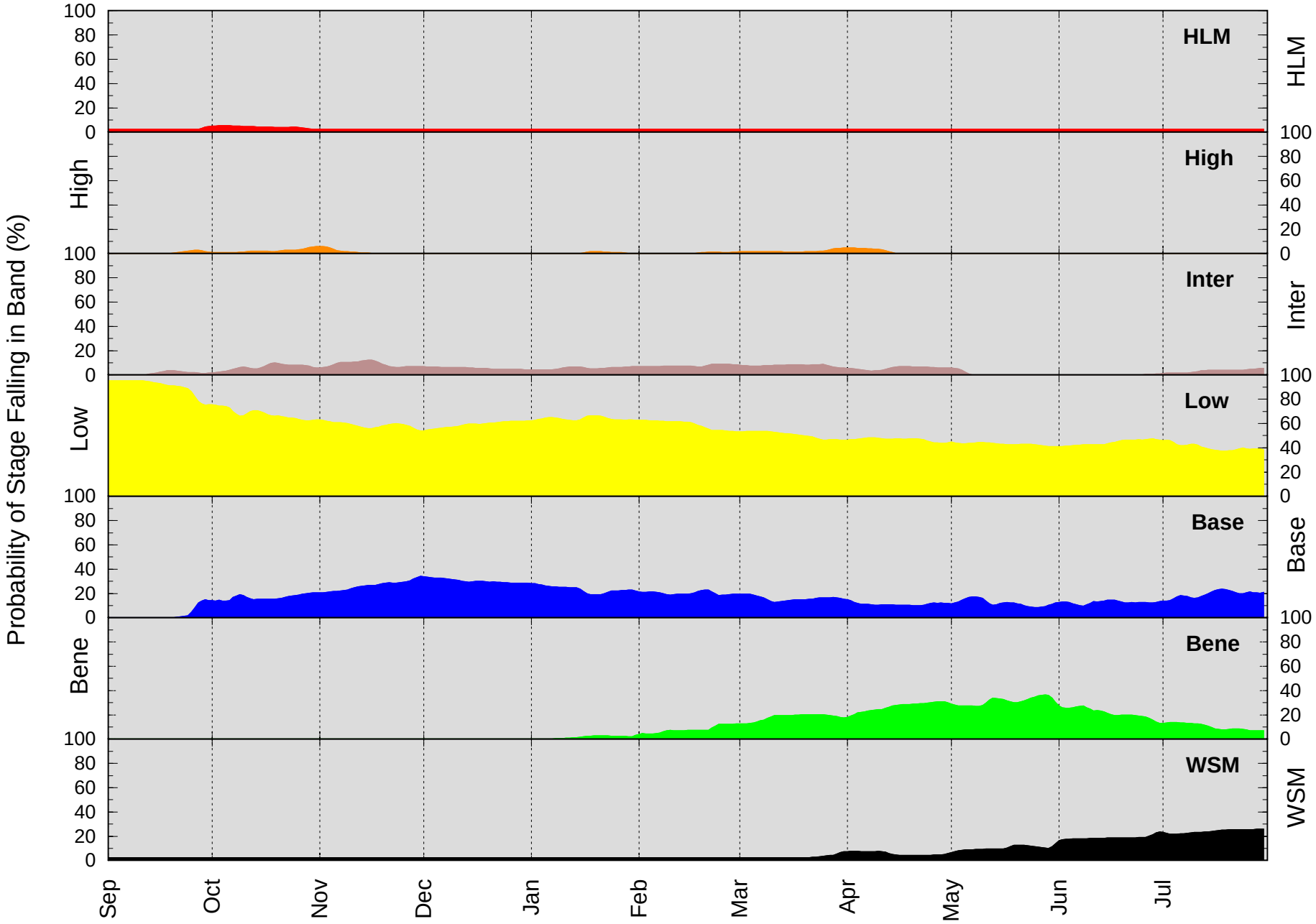


(See assumptions on the Position Analysis Results website)

Fri Sep 7 11:18:31 2018

Lake Okeechobee – Band Probabilities

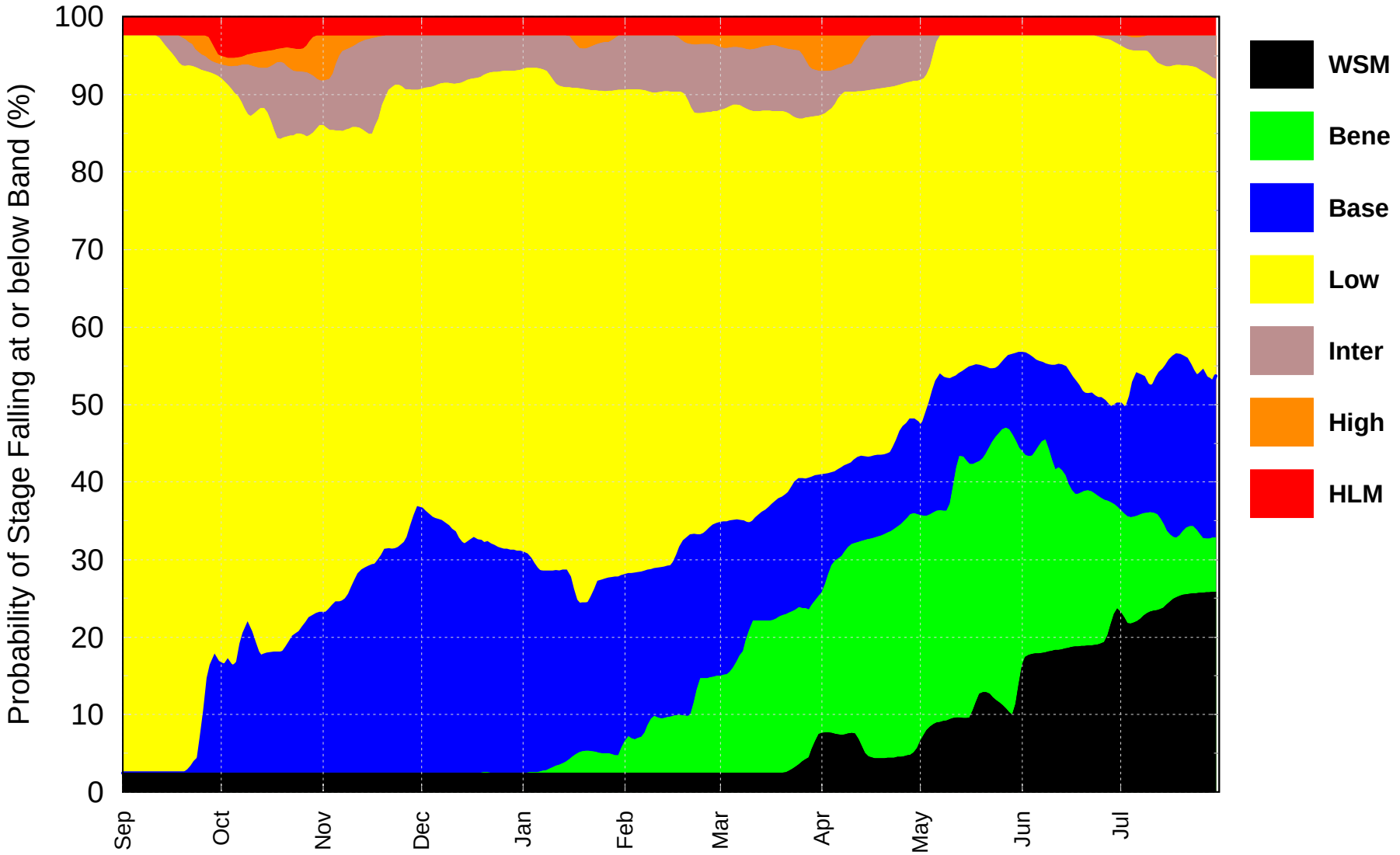
'(See assumptions on the Position Analysis Results website)'



Fri Sep 7 14:04:40 2018

Lake Okeechobee − Probabilities for Operational Bands

'(See assumptions on the Position Analysis Results website)'



The width for each band gives the probability of stage falling in that band, as defined by the operational schedules.

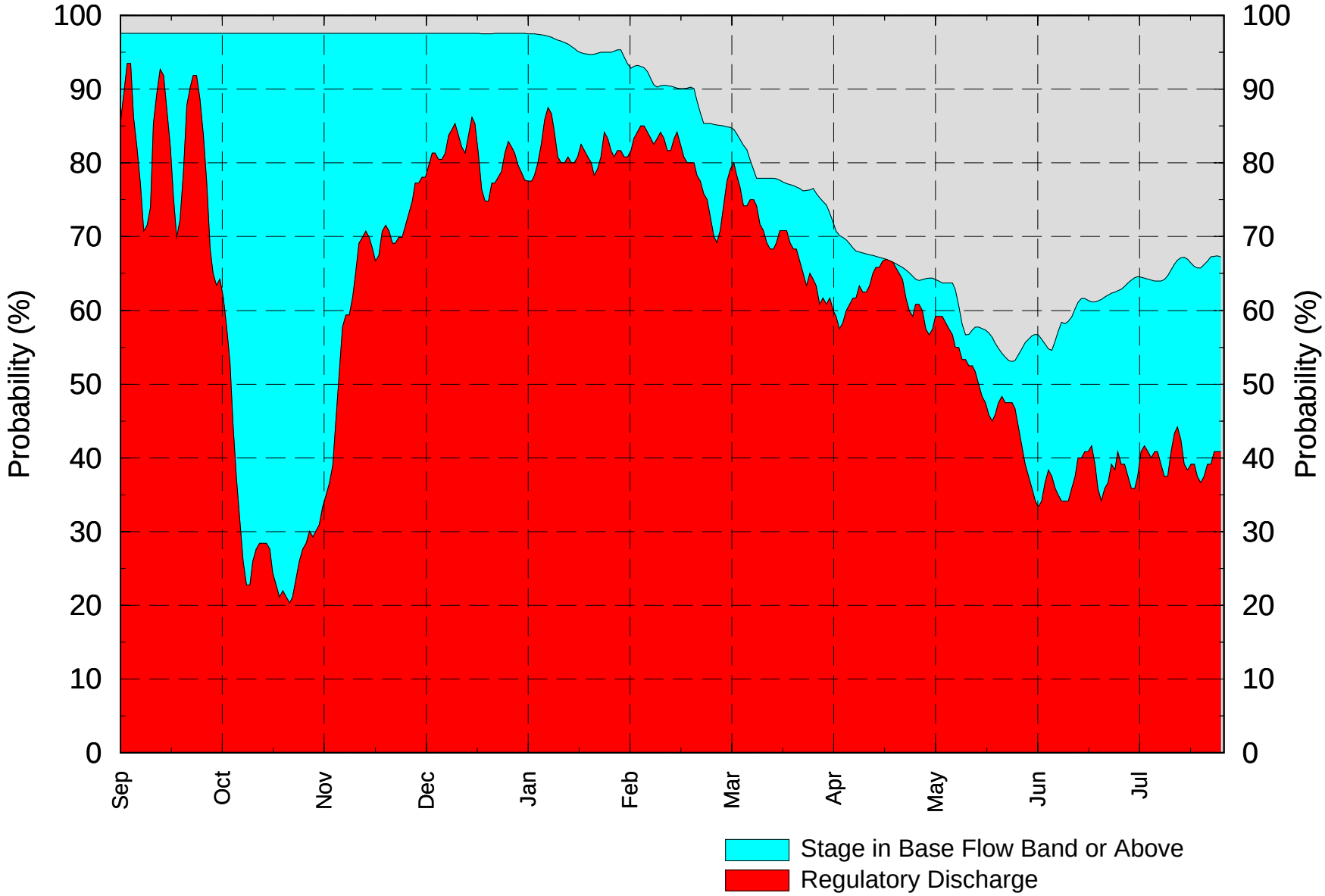
Fri Sep 7 14:05:18 2018

Lake Okechobee Band Probabilities (%) at the Begining of Each Month
’(See assumptions on the Position Analysis Results website)’
Initial Stage 14.37 ft. for 08/01/2018

Date	HLM	High	Inter	Low	Base	Bene	WSM
2018 08 01	2.4	0.0	0.0	95.1	0.0	0.0	2.4
2018 09 01	2.4	0.0	0.0	95.1	0.0	0.0	2.4
2018 10 01	5.1	1.1	1.8	75.5	14.1	0.0	2.4
2018 11 01	2.4	5.8	5.8	62.9	20.6	0.0	2.4
2018 12 01	2.4	0.0	6.9	54.2	34.1	0.0	2.4
2019 01 01	2.4	0.0	4.3	62.4	28.3	0.0	2.4
2019 02 01	2.4	0.0	7.0	62.6	21.4	4.1	2.4
2019 03 01	2.4	1.4	8.4	53.3	19.6	12.5	2.4
2019 04 01	2.4	4.6	5.8	46.5	15.5	17.8	7.5
2019 05 01	2.4	-0.0	5.8	44.1	11.8	30.1	5.7
2019 06 01	2.4	-0.0	-0.0	41.0	12.2	30.6	13.8
2019 07 01	2.4	-0.0	1.1	46.4	13.3	13.1	23.6

Lake Okeechobee − LORS2008 Releases to the Estuaries

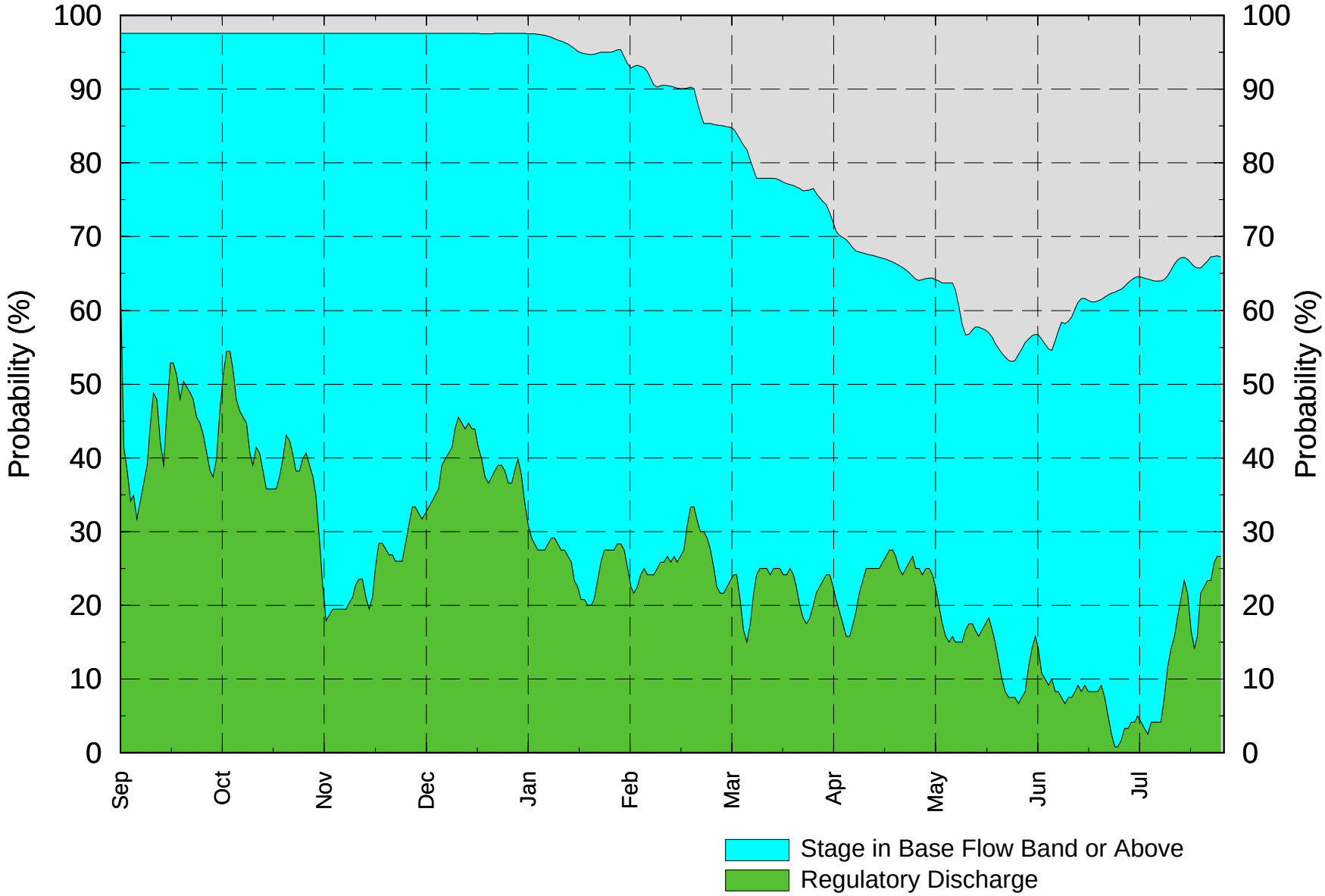
Unconditional PA Operations (See assumptions on the Position Analysis Results website)



Fri Sep 7 14:03:53 2018

Lake Okeechobee − LORS2008 Releases to the WCA's

Unconditional PA Operations (See assumptions on the Position Analysis Results website)



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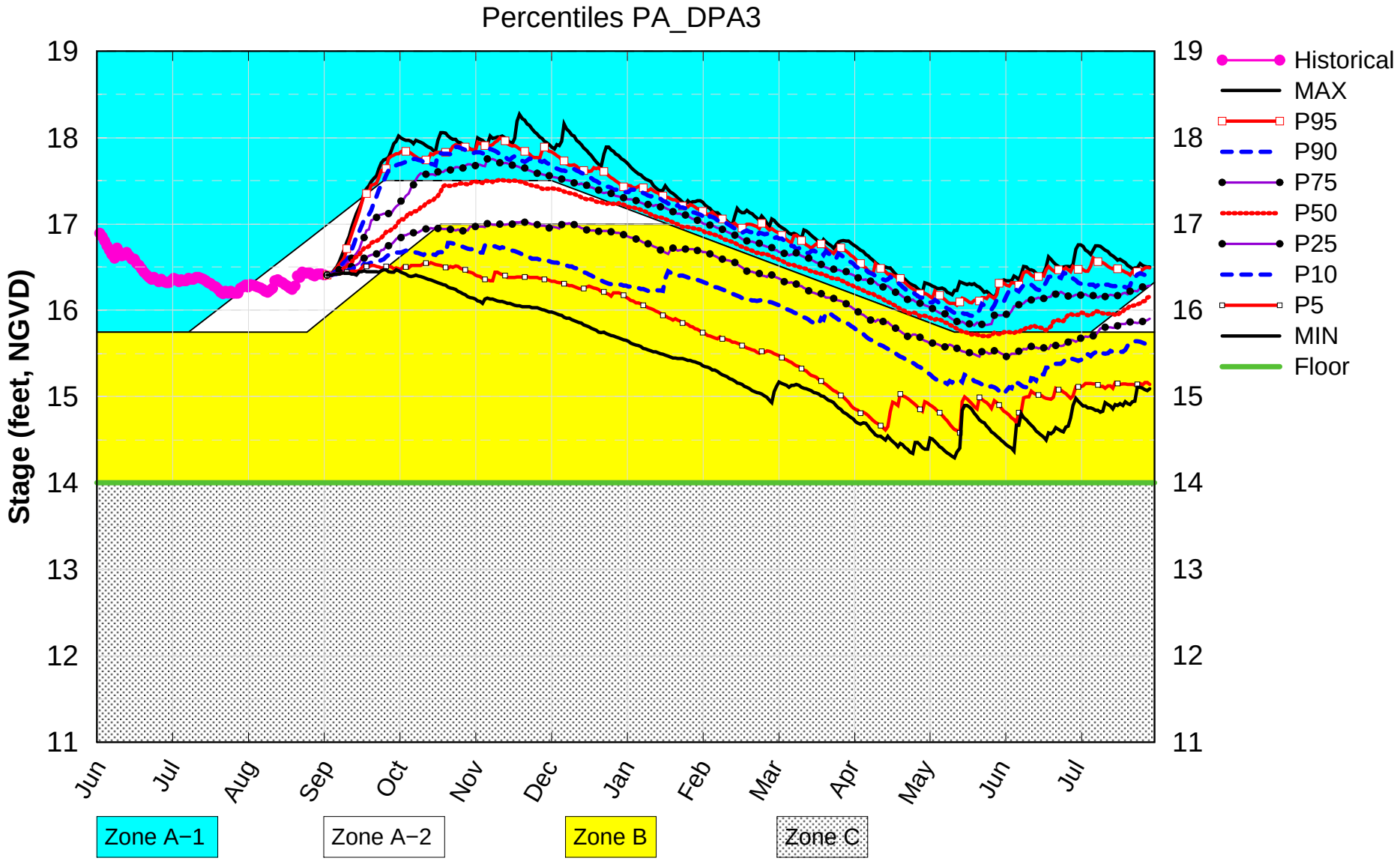
WCA1 SFWMM Sep 2018 Position Analysis



(See assumptions on the Position Analysis Results website)

Fri Sep 7 11:18:00 2018

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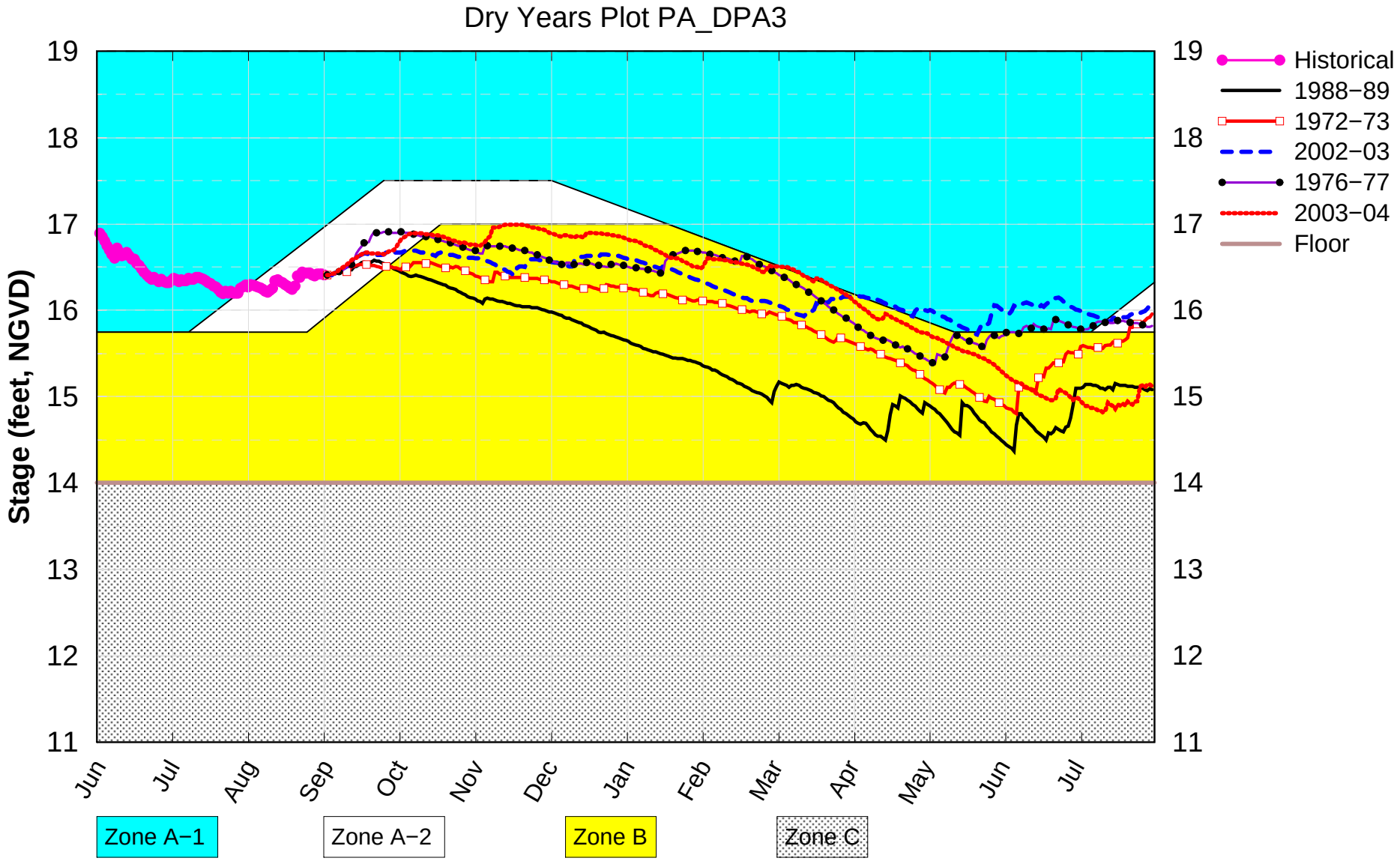

(See assumptions on the Position Analysis Results website)

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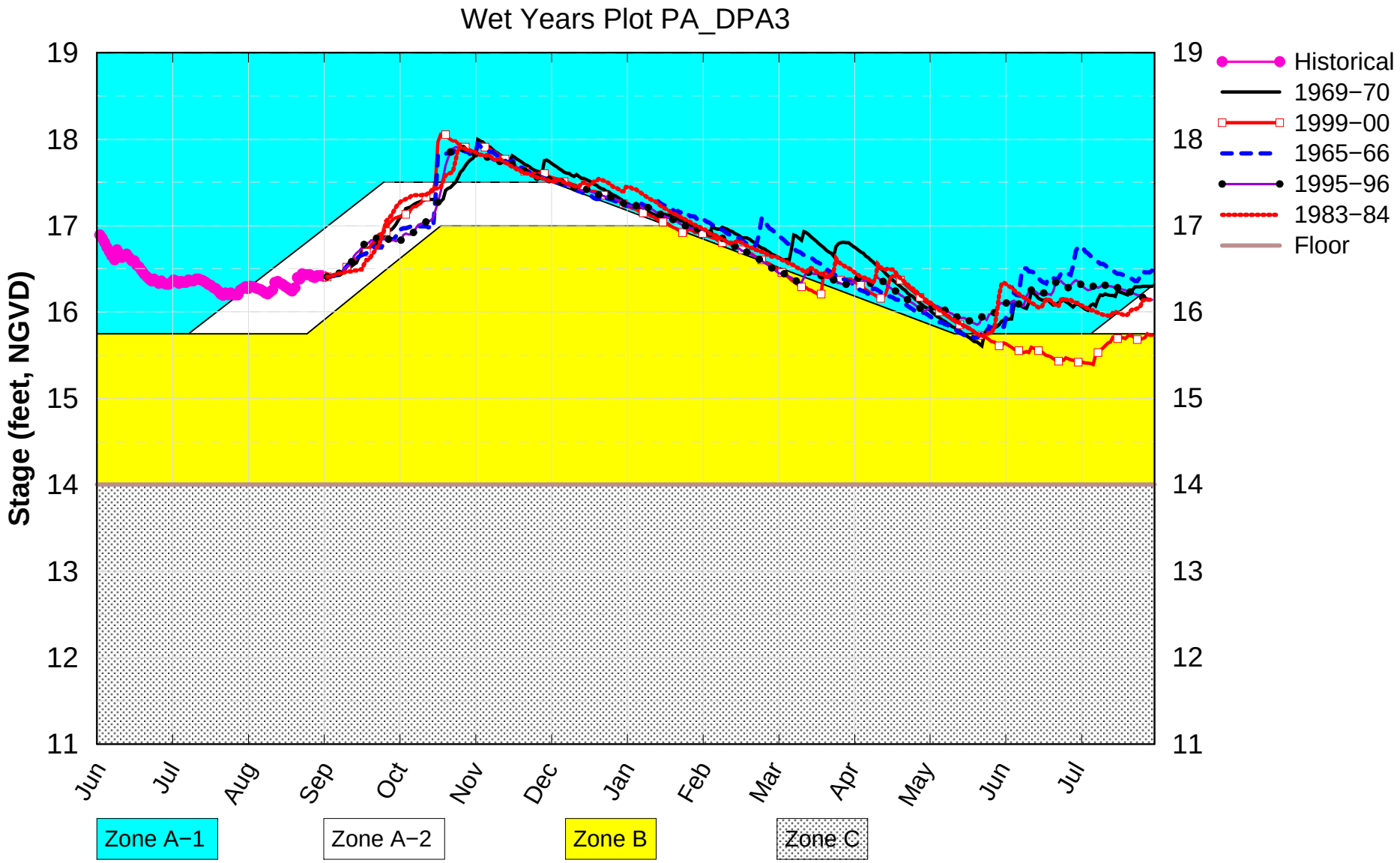
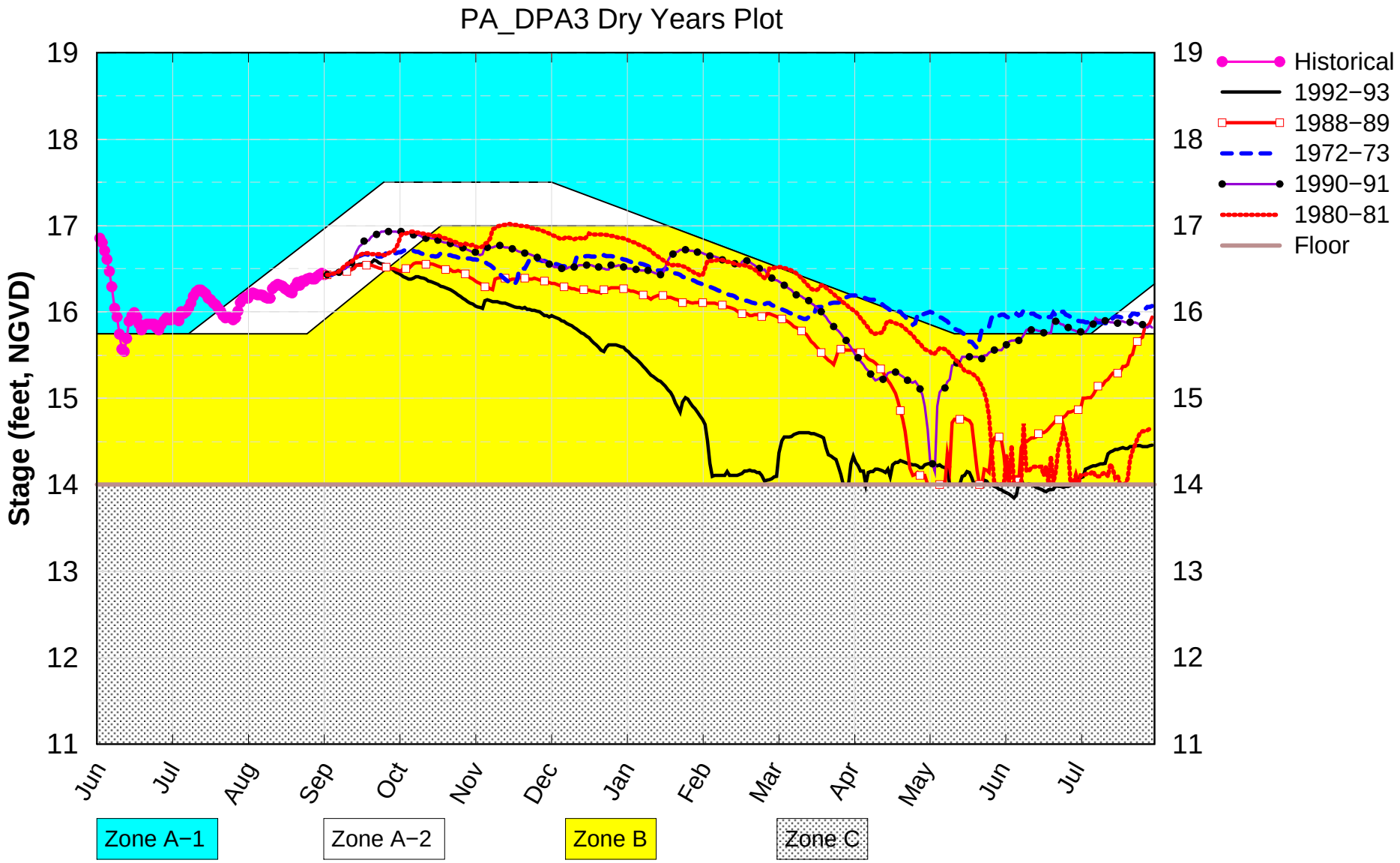
WCA1 SFWMM Sep 2018 Position Analysis



(See assumptions on the Position Analysis Results website)

Fri Sep 7 11:18:45 2018

CA1 Canal SFWMM Sep 2018 Position Analysis



(See assumptions on the Position Analysis Results website)

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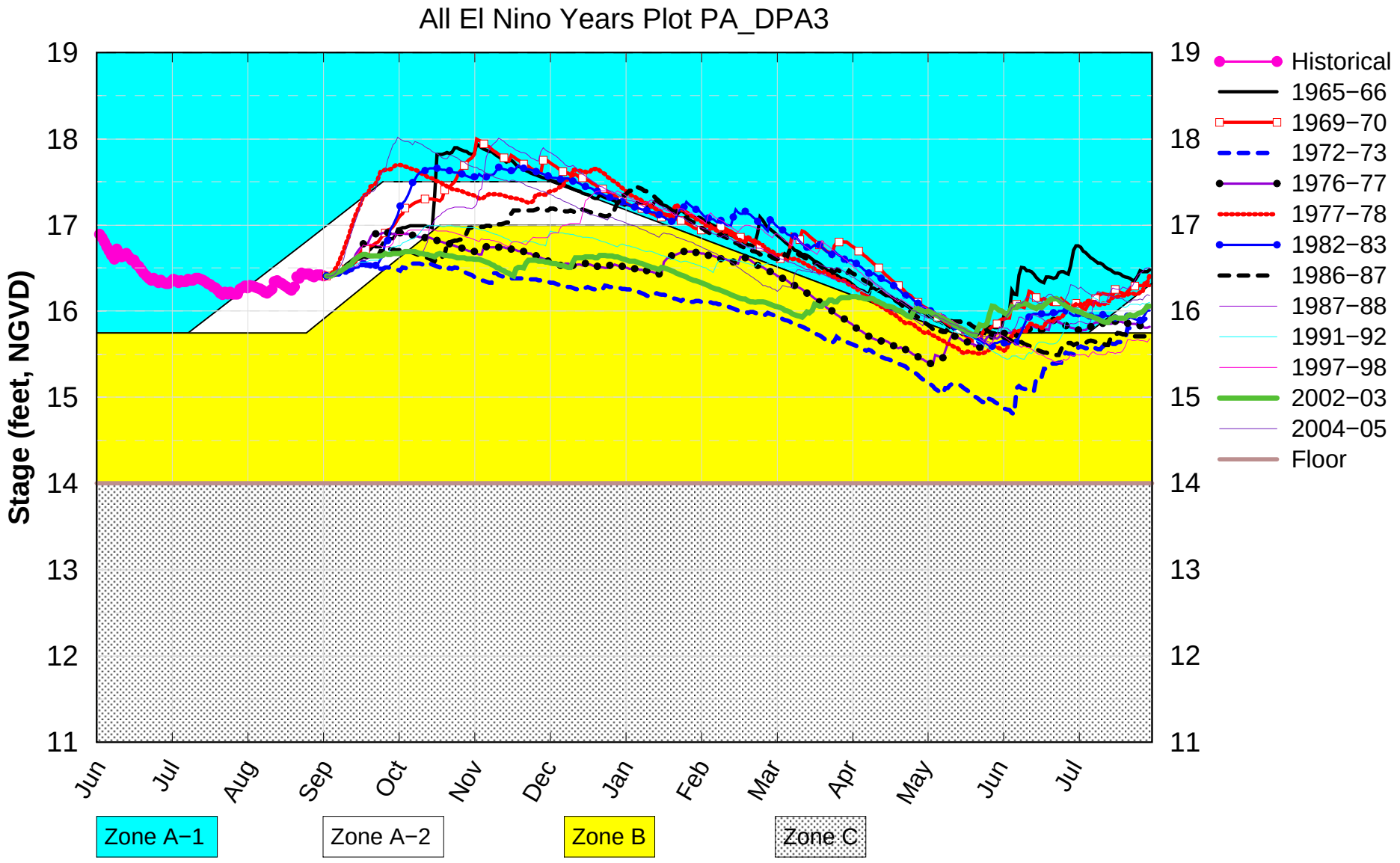

(See assumptions on the Position Analysis Results website)

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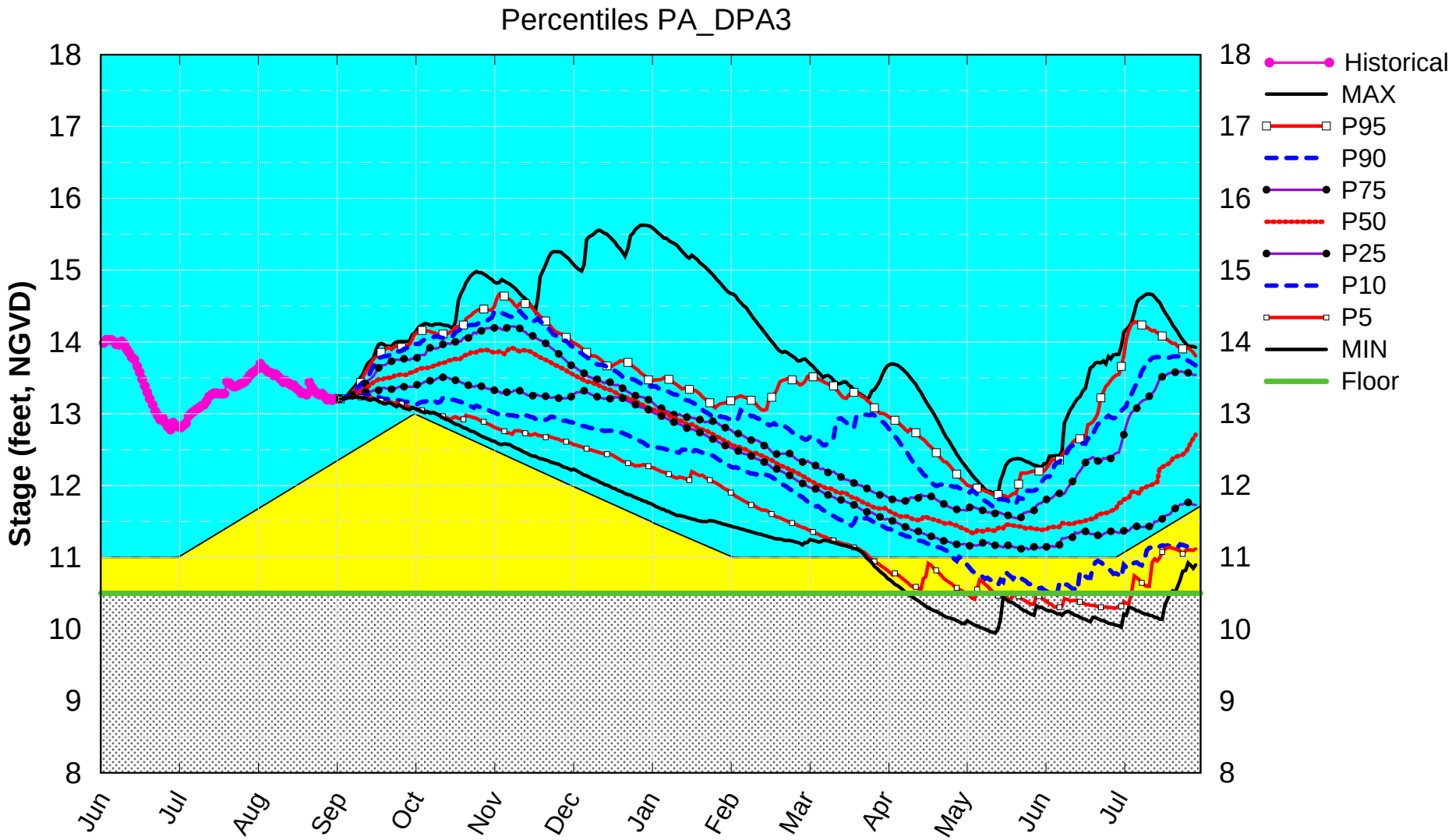
WCA2A SFWMM Sep 2018 Position Analysis



(See assumptions on the Position Analysis Results website)

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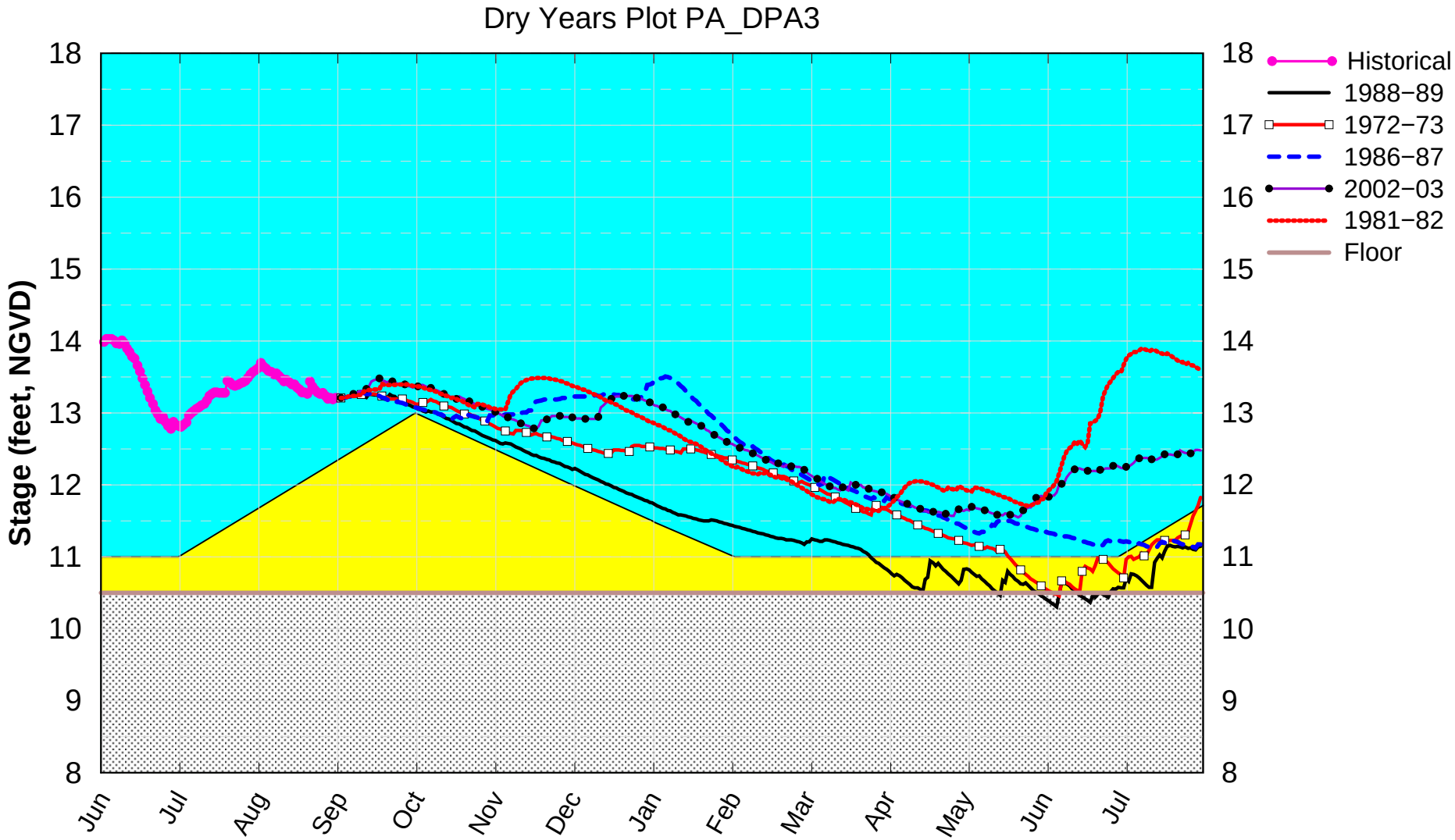

(See assumptions on the Position Analysis Results website)

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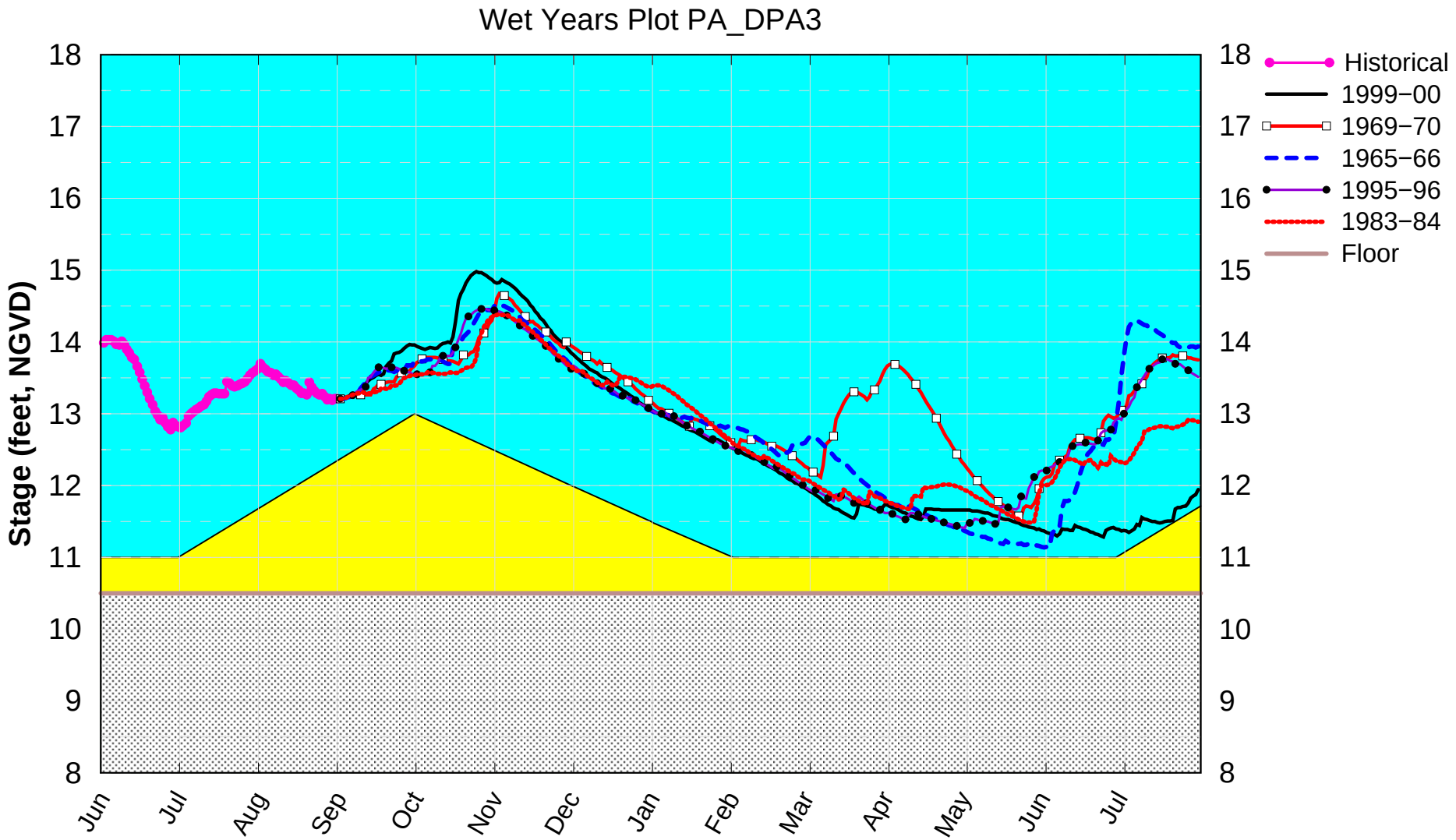
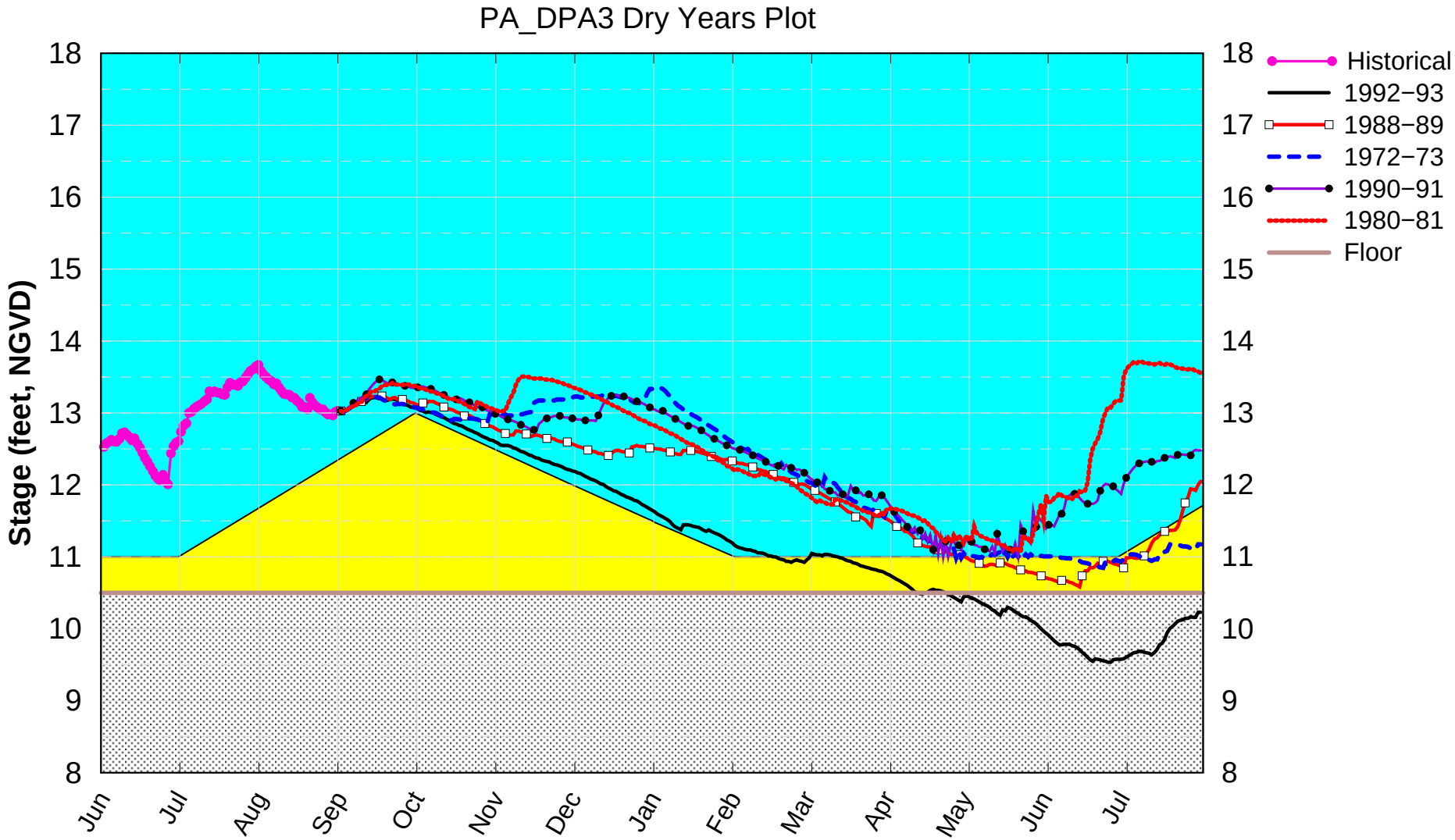


(See assumptions on the Position Analysis Results website)

Fri Sep 7 11:19:03 2018

L38 Canal SFWMM Sep 2018 Position Analysis

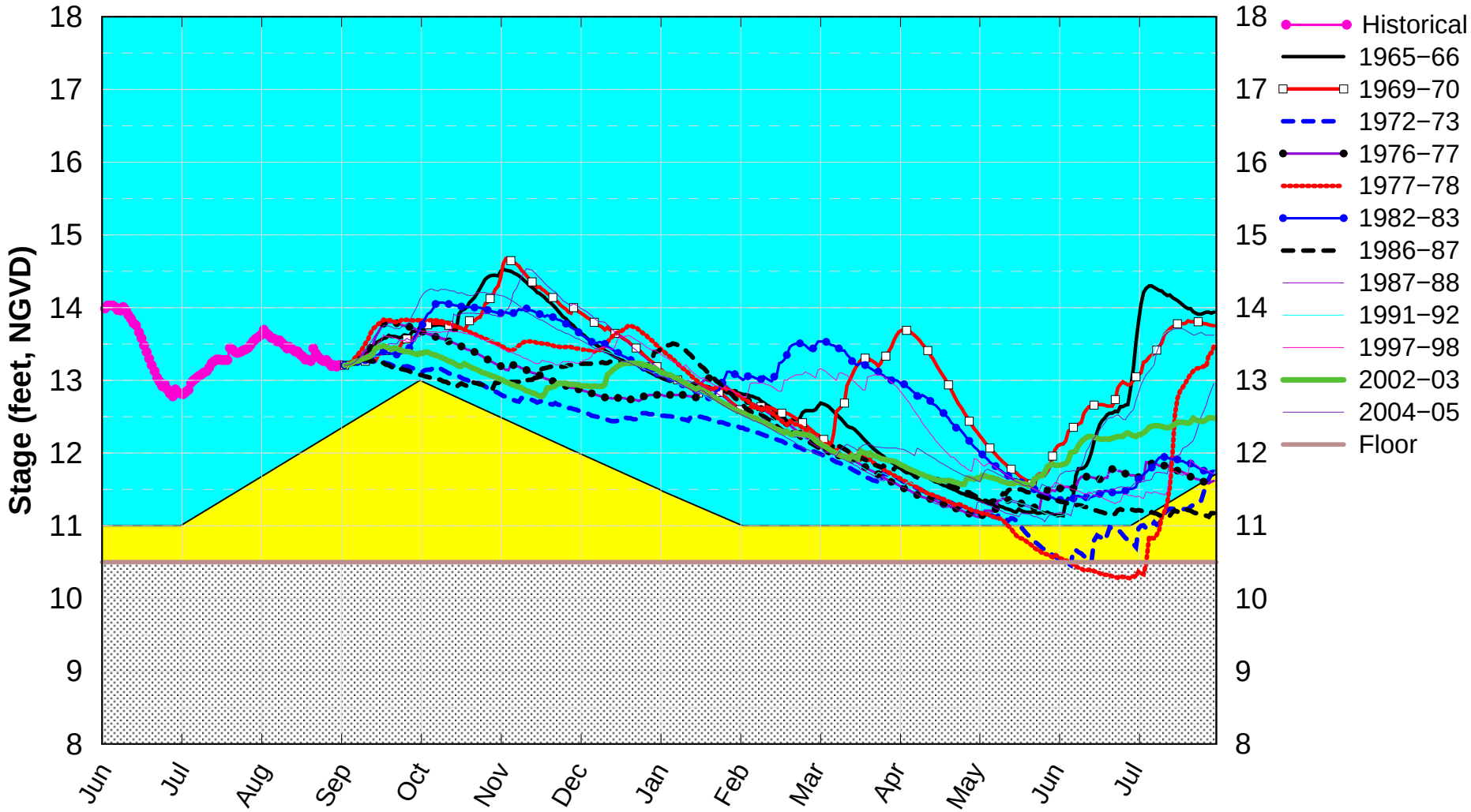


(See assumptions on the Position Analysis Results website)

Fri Sep 7 11:20:01 2018

WCA2A SFWMM Sep 2018 Position Analysis

All El Nino Years Plot PA_DPA3



(See assumptions on the Position Analysis Results website)

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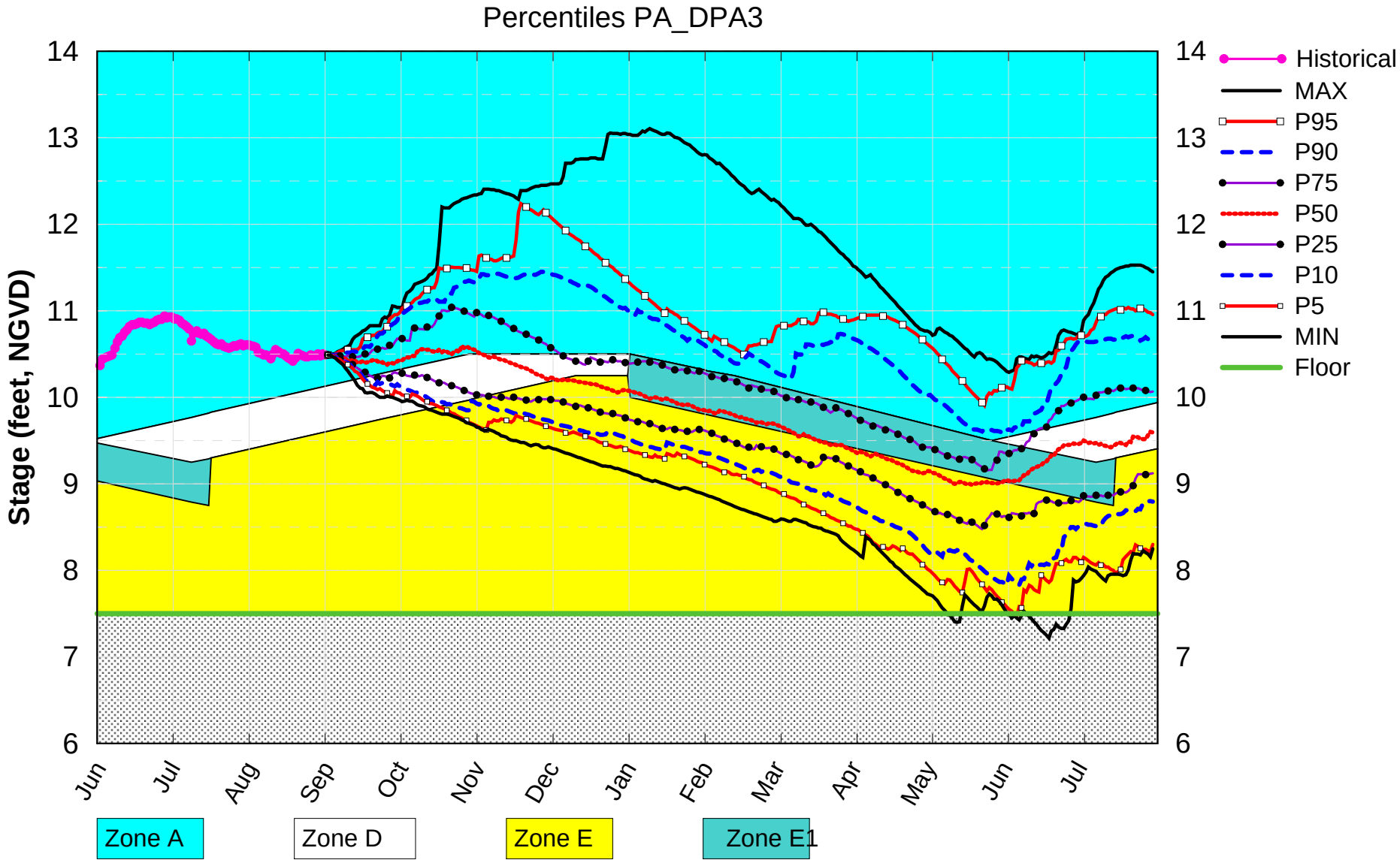
WCA3A SFWMM Sep 2018 Position Analysis



(See assumptions on the Position Analysis Results website)

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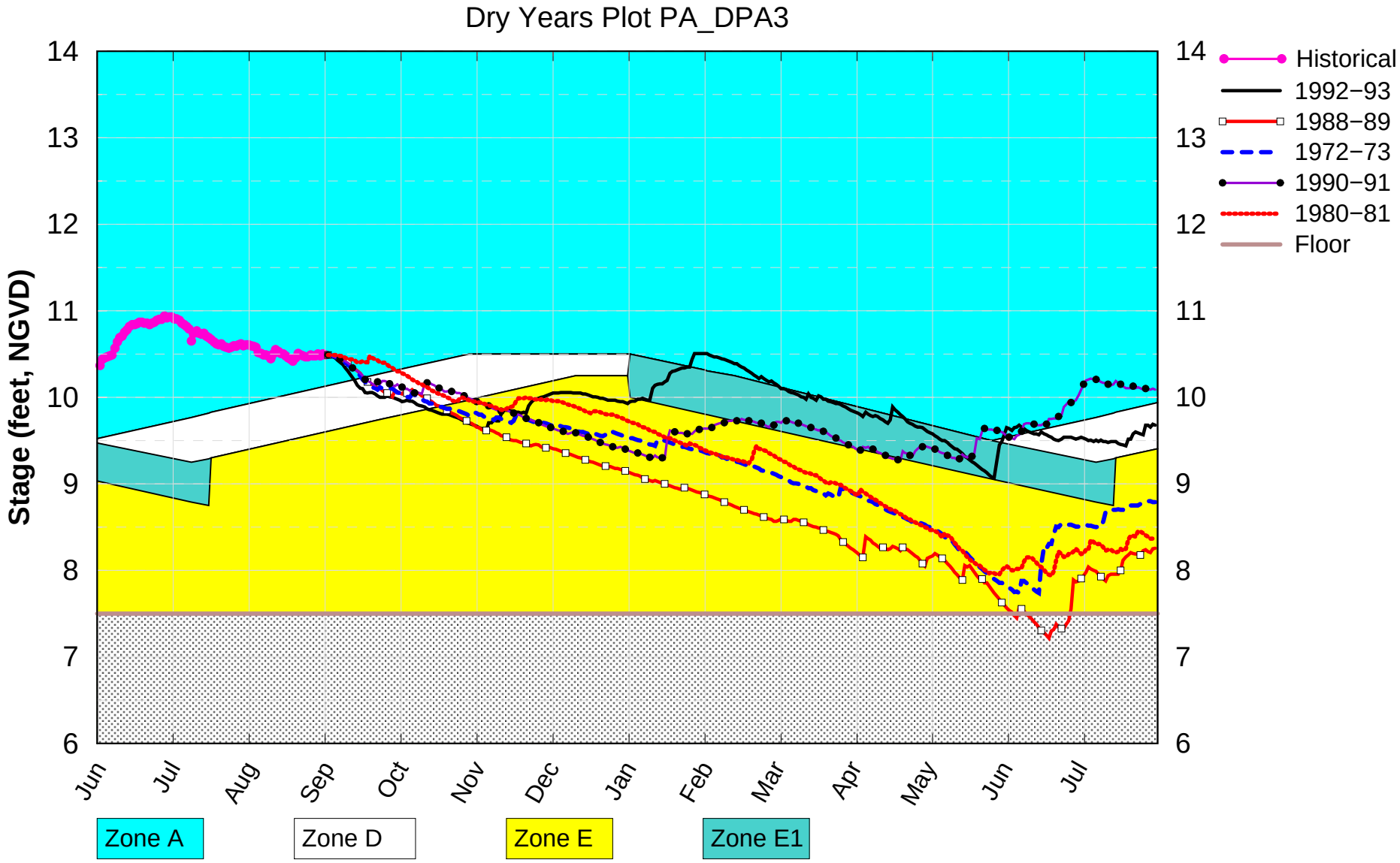

(See assumptions on the Position Analysis Results website)

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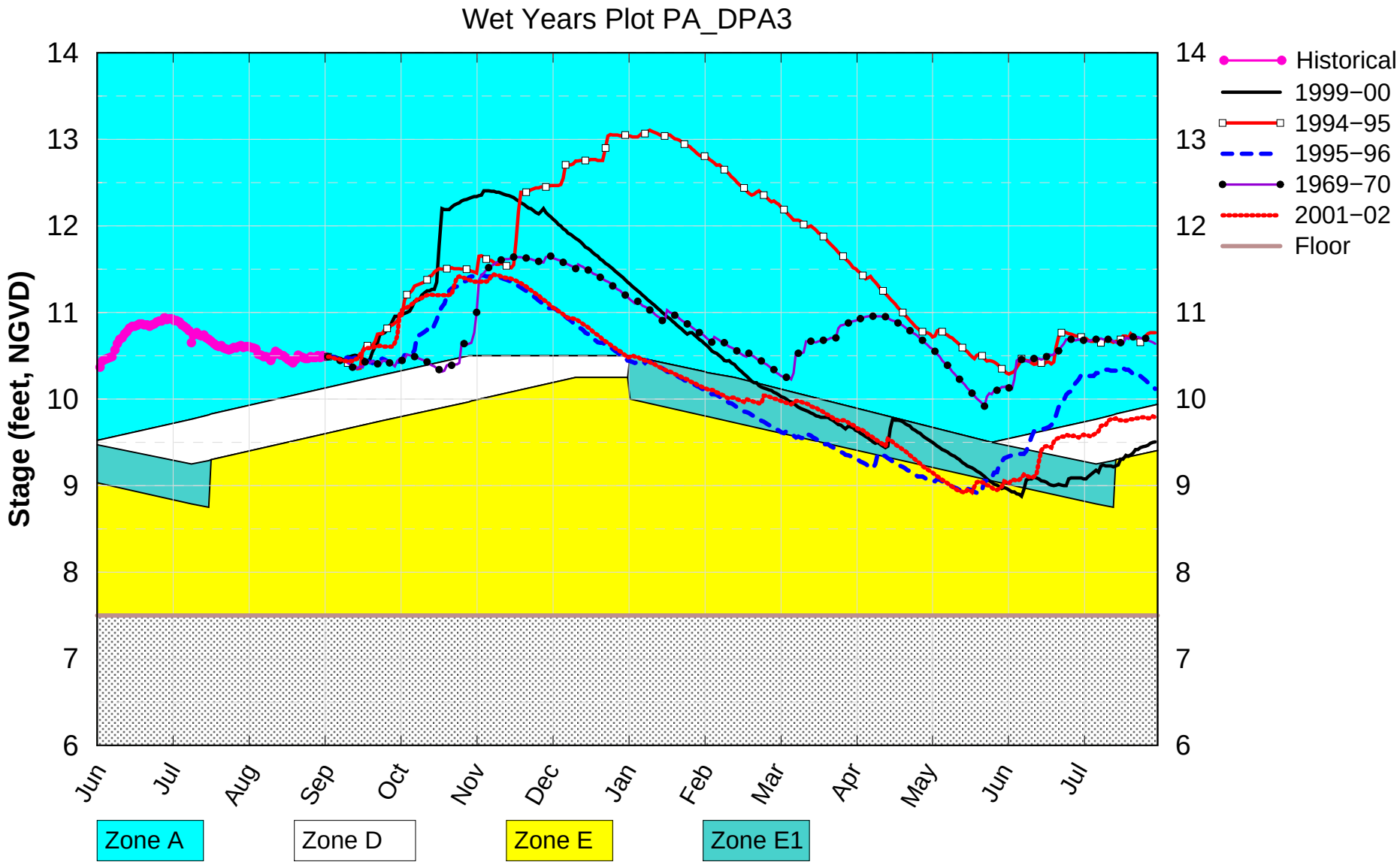
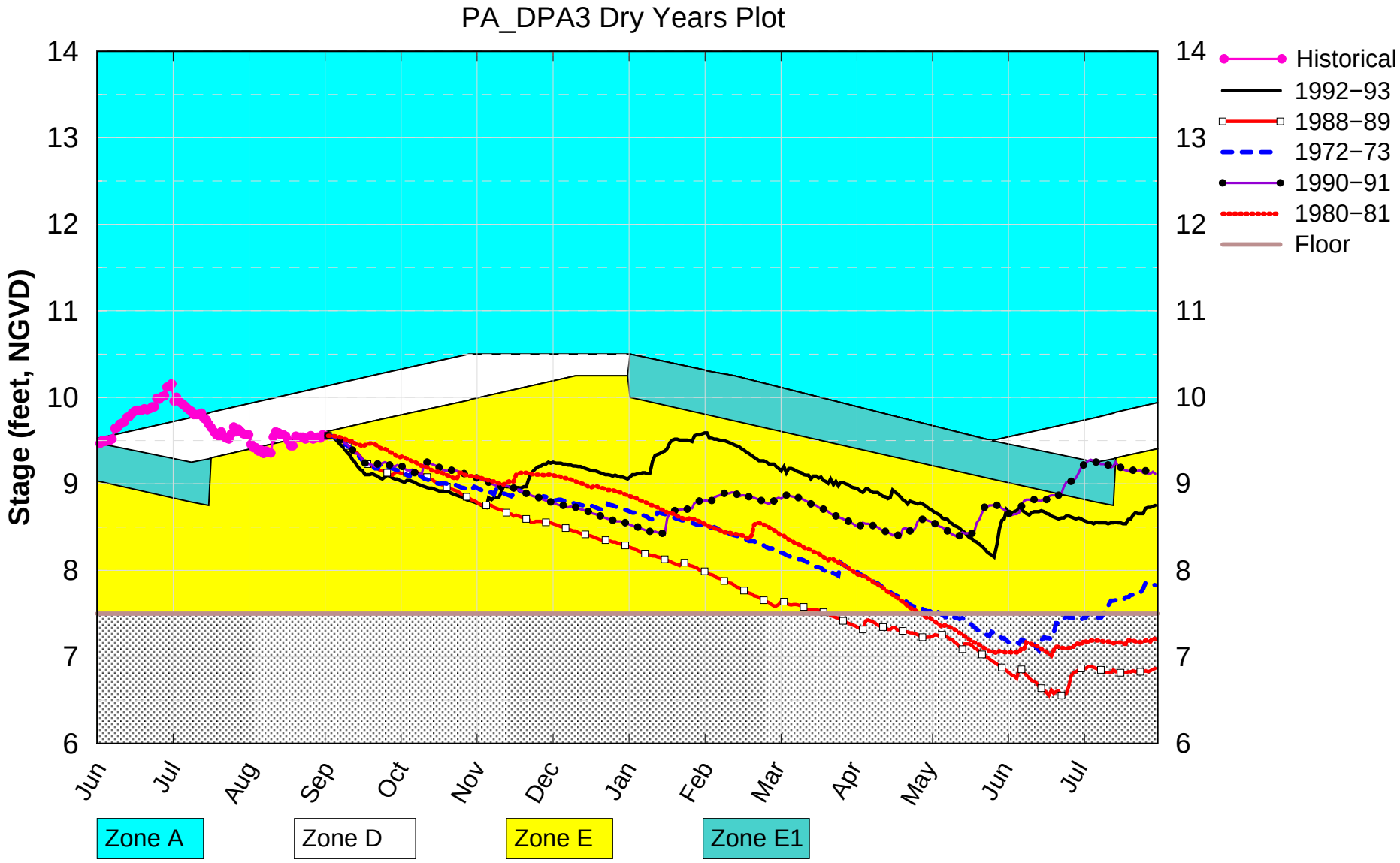


(See assumptions on the Position Analysis Results website)

Fri Sep 7 14:29:27 2018

CA3 Canal SFWMM Sep 2018 Position Analysis



(See assumptions on the Position Analysis Results website)

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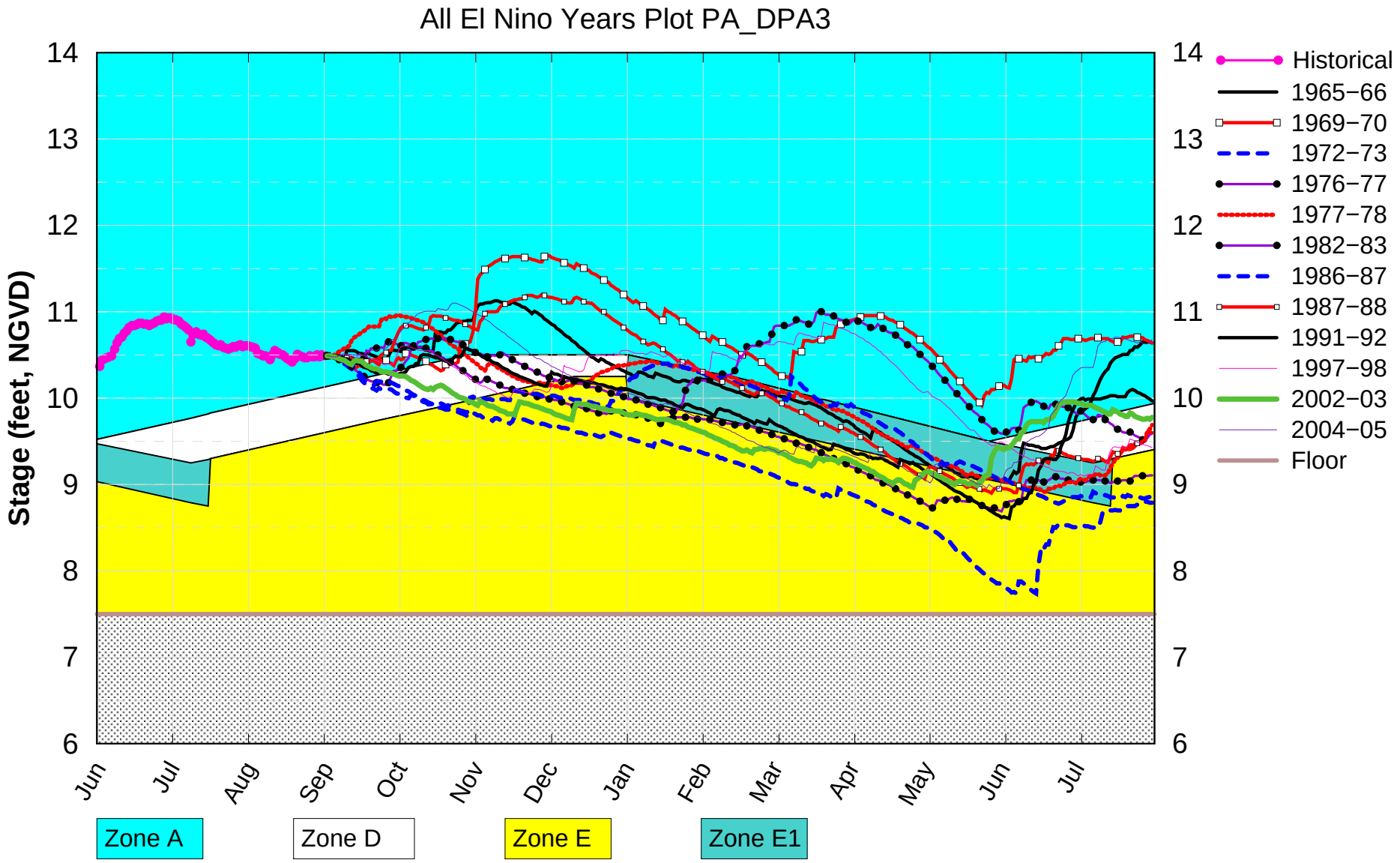
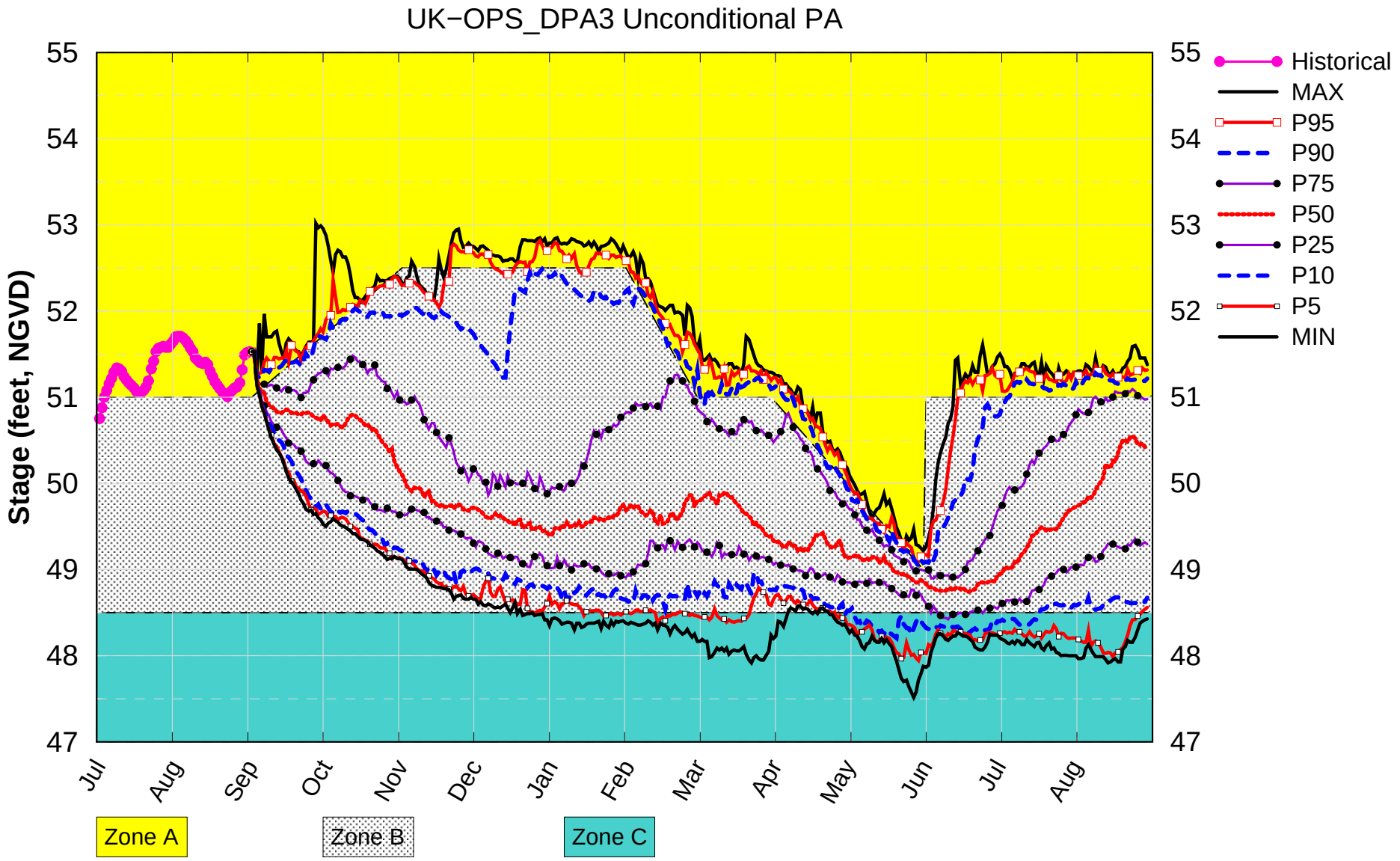


(See assumptions on the Position Analysis Results website)

Fri Sep 7 14:29:57 2018

S65 UK−OPS Sep 1 2018 Position Analysis

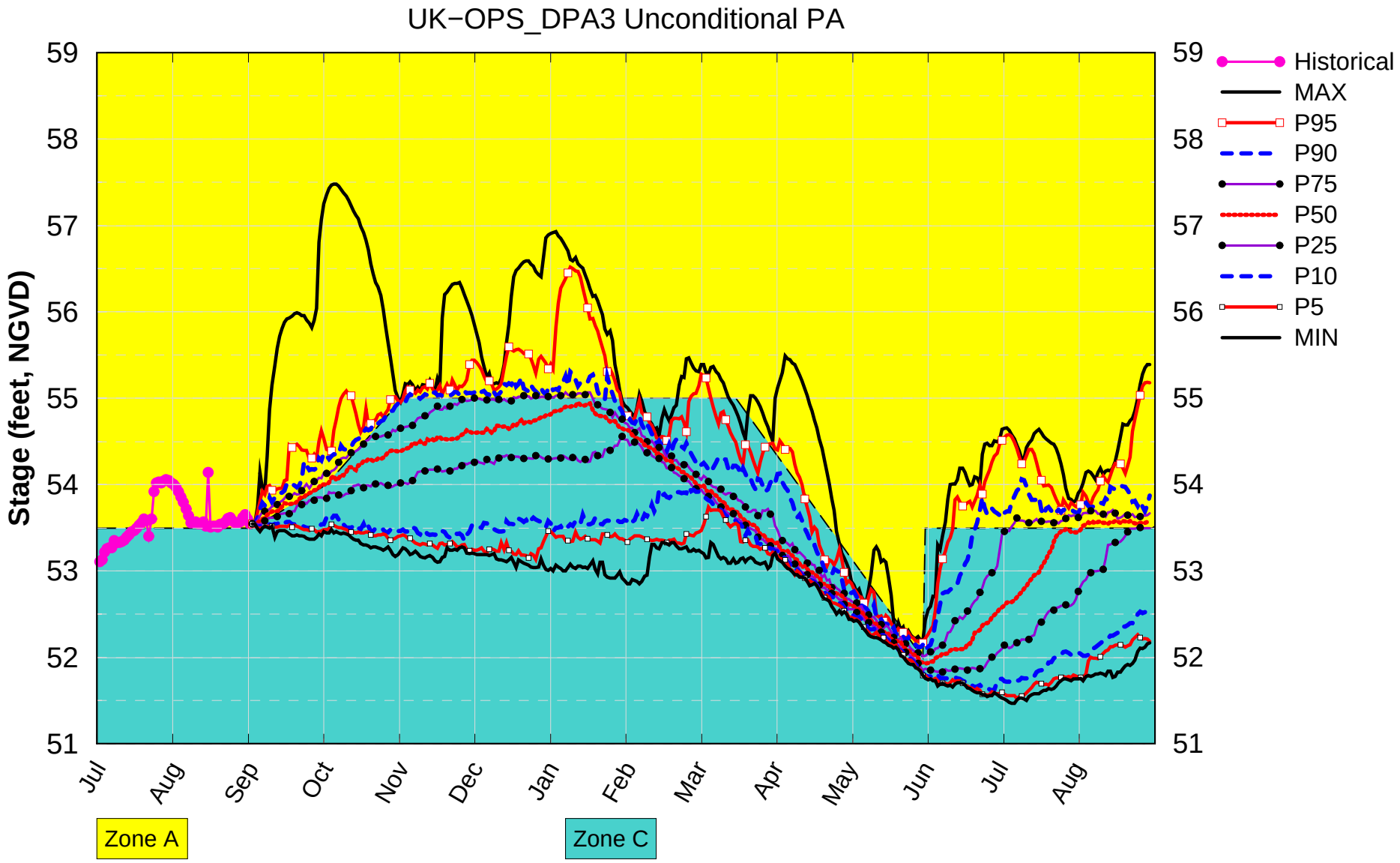


(See assumptions on the Position Analysis Results website)

Fri Sep 7 14:53:17 2018

* Regulation schedules shown on this graphic represent the standard operating schedules

S61 UK−OPS Sep 1 2018 Position Analysis



(See assumptions on the Position Analysis Results website)

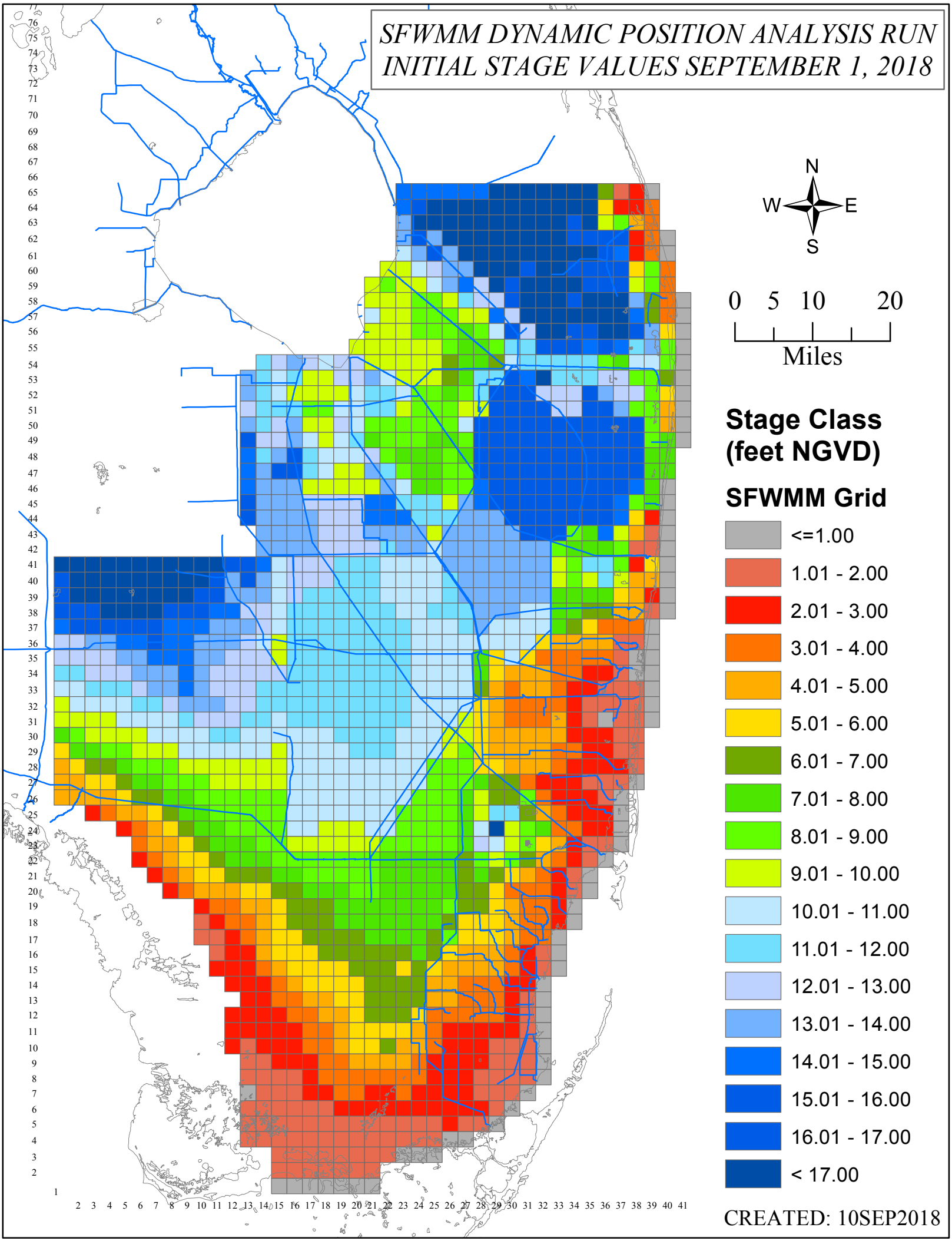
Fri Sep 7 14:57:01 2018

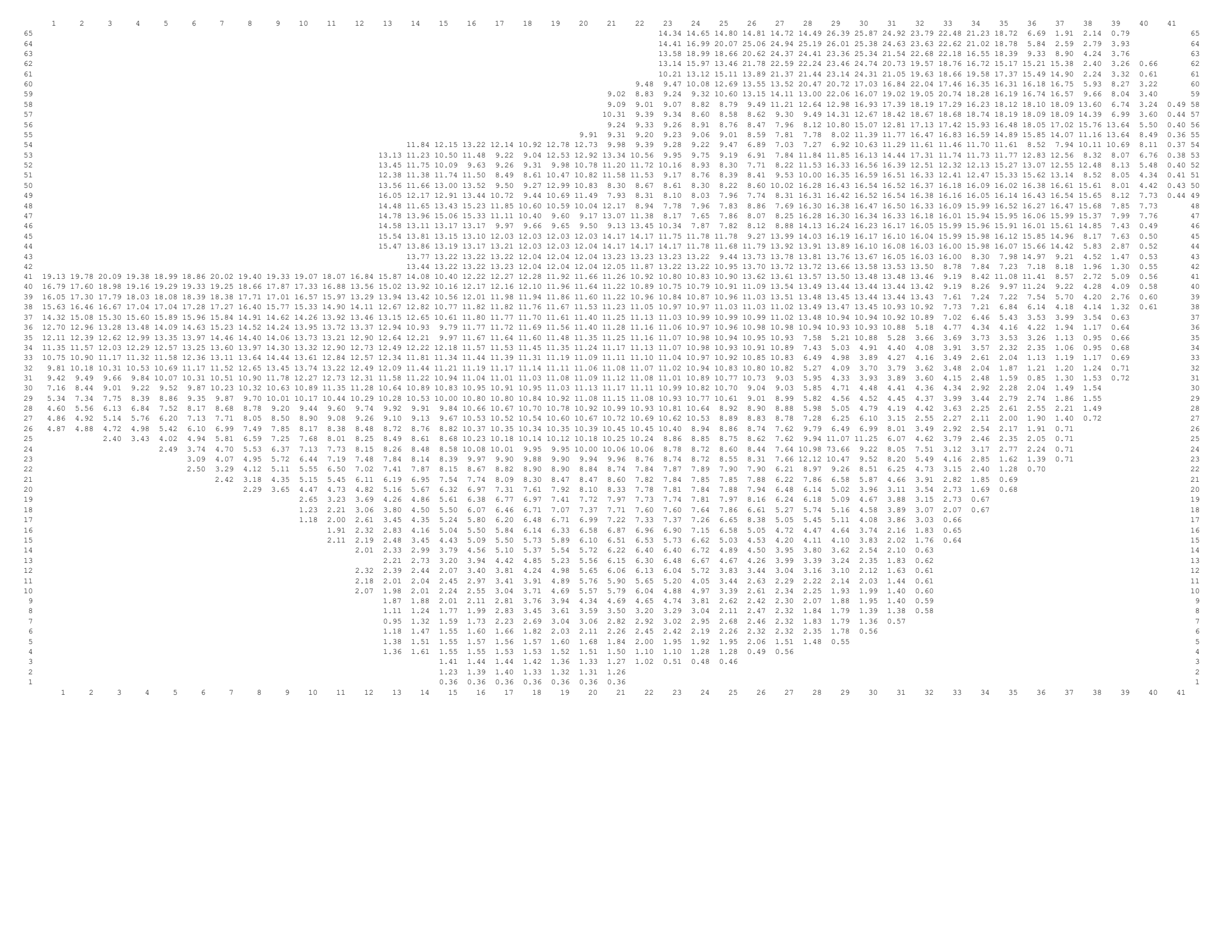
* Regulation schedules shown on this graphic represent the standard operating schedules

For the Dynamic Position Analysis the Upper Kissimmee Operations Screening (UK-OPS) Model is used to simulate water levels and releases from Lakes Kissimmee-Cypress-Hatchineha, Tohopekaliga, and East Lake Tohopekaliga. The UK-OPS Model is used to obtain a representation of the Lake Kissimmee operations per the 2015 Wet Season Kissimmee Basin Interagency Planning Meeting. While SFWMD staff efforts continue toward improving the modeling tools for the Kissimmee basins, an intermediate solution is to use the UK-OPS Model.

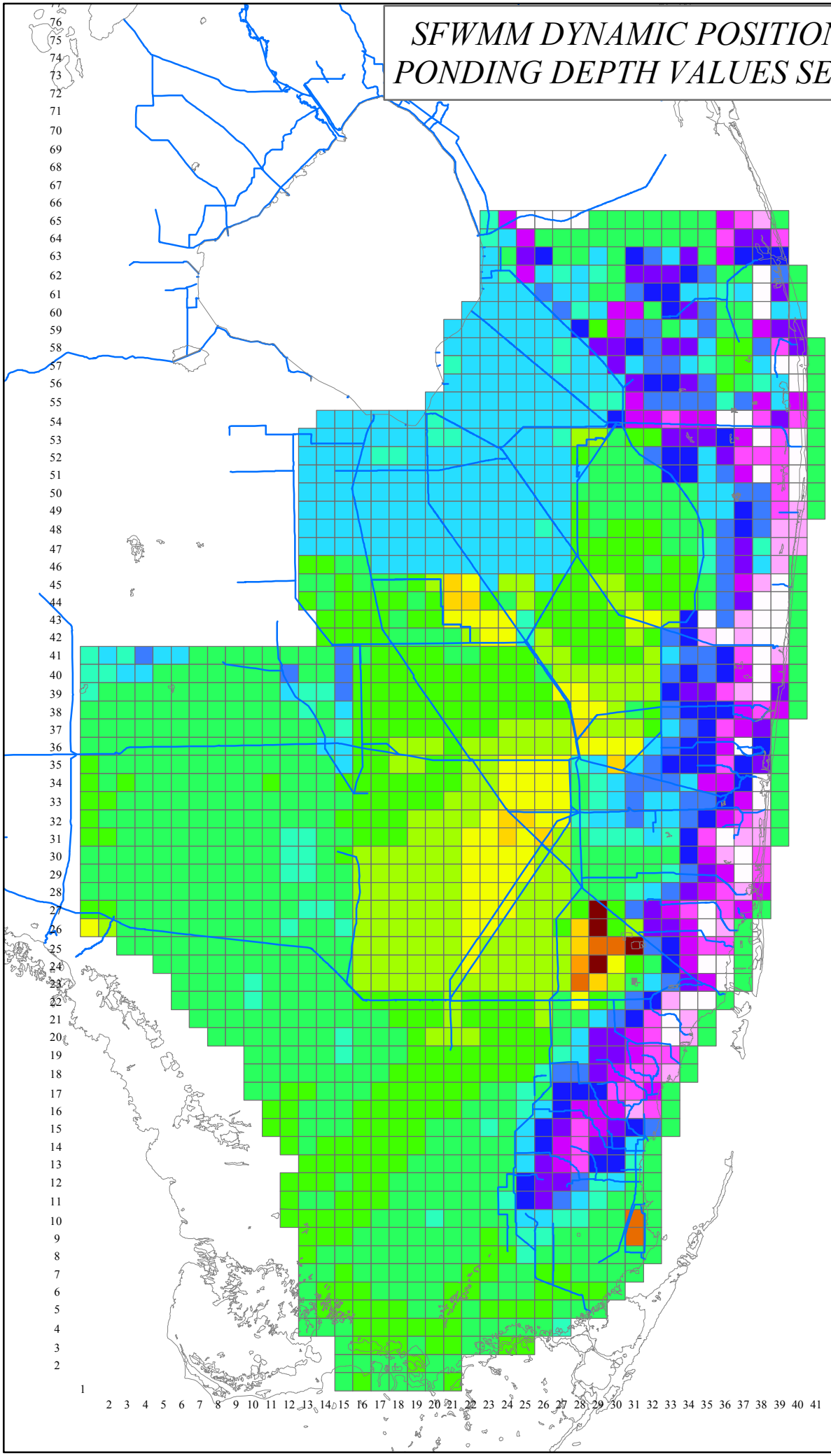
AREA	Canal Name	SFWMM Name	Location	SFWMD sensor stage(ft)
WPB	C-18	C18	G92-H	14.62
WPB	C-17	C17	S44-H	7.00
WPB	C-51W	C51W	S5AE-T	11.72
WPB	C-51	C51	S155-H	7.91
WCA	WCA-1 L-40	CA1	1-8C	16.43
FTLD	Hillsboro Canal	HLSB	G56-H	5.41
WCA	WCA-2A L-38	L38	S11B-H	13.02
WCA	WCA-2A L-39	CA2A	S10A-T	13.13
FTLD	C-14	C14	S37B-H	6.12
FTLD	C-14E	C14E	S37A-H	3.30
FTLD	Pompano	POMP	G57-H	4.44
FTLD	C-12	C12	S33-H	3.76
FTLD	C-13	C13	S36-H	4.43
FTLD	North New River Canal	NNRC	G54-H	3.46
MIAMI	L-33	L33	S30-H	6.17
MIAMI	C-304	C304	S31-H	8.38
MIAMI	C-9	C9	S29-H	1.96
MIAMI	C-9 DEN	C9DEN	S29-H	1.96
MIAMI	C-8	C8	S28-H	1.74
MIAMI	C-7	C7	S27-H	1.83
MIAMI	C-6	C6	S26-H	2.48
MIAMI	C-2/C-4	C4	S25B-H	2.22
MIAMI	L-30	L30	S335-H	6.85
WCA	WCA-3A L-29	CA3	S333-H	9.56
WCA	S-12A	S12AD	S12A-T	9.36
WCA	S-12B	S12BD	S12B-T	9.36
WCA	S-12C	S12CD	S12C-T	9.41
WCA	S-12D	S12DD	S12D-T	9.48
MIAMI	L-29	L29	S334-H	8.20
MIAMI	C-100C	C100C	S119-H	3.49
MIAMI	C-100	C100	S118-H	3.35
MIAMI	C-100A	C100A	S123-H	2.87
HMST	C-1/S-148	S148U	S148-H	3.09
HMST	L-31N	L31N	S331-H	4.75
HMST	C-1N	C1N	S149-H	1.93
MIAMI	S-21	S21	S21-H	1.77
HMST	L-31S	L31S	S176-H	4.20
MIAMI	C-102N	C102N	S21A-H	1.62
HMST	C-102	C102	S165-H	3.47
MIAMI	C-103S	C103S	S167-H	3.12
HMST	C-103N	C103N	S166-H	2.86
HMST	C-103	S179	S179-H	2.90
HMST	L-31W	L31W	S332-H	4.20
HMST	C-111	C111	S177-H	3.75
HMST	CNO	CNO	S179-H	2.90
HMST	C-111E	C111E	S18C-H	2.54
HMST	S-197	S197	S197-H	2.51
EAA	L-23E	L23E	S8-T	11.81
EAA	C-60	C60	S140-T	11.25

SFWMM Name	col	row	STAGE	Source Data	match	domain match areas
1-7	31	48	16.63	USACE	PA	CA1
1-8T	34	47	16.29	USACE	PA	CA1
1-9	33	46	16.32	USACE	PA	CA1
2-17	29	40	13.21	USACE	PA	CA2
2-159	28	43	13.60	SFWMD-ARDAMS	PA	CA2
3-99	30	35	10.65	USACE		CA2
3A-2	18	36	11.39	USACE	PA	CA3
3A-3	25	37	10.99	USACE	PA	CA3
3A-28	19	24	9.72	USACE	PA	CA3
3A-4	21	29	10.76	USACE	PA	CA3
3A-NW	18	40	11.99	SFWMD-ARDAMS		CA3
3A-NE	23	40	10.77	SFWMD-ARDAMS		CA3
3A-SW	16	30	10.59	SFWMD-ARDAMS		CA3
3A-S	20	33	10.79	SFWMD-ARDAMS		CA3
3-76	27	30	8.57	USACE		
3-71	24	26	8.49	USACE		
SHARK	24	23	8.30	USACE		CA3
3BS1W	26	23	7.93	SFWMD-ARDAMS		
HOLY1	19	45	11.90	SFWMD-ARDAMS		WMA
HOLY2	21	42	11.90	SFWMD-ARDAMS		WMA
ROTTN	15	46	13.31	SFWMD-OPERATIONS		WMA
ROTTS	16	43	13.34	SFWMD-OPERATIONS		WMA
NP205	15	20	6.74	USACE		ENP
NP201	19	21	8.36	USACE		ENP
NP36	17	14	5.08	USACE		ENP
NP38	16	9	2.02	USACE		ENP
NP46	17	7	1.95	USACE		ENP
NP67	22	7	2.80	USACE		
NP33	20	17	7.06	USACE		ENP
NP34	13	17	3.60	USACE		ENP
NP44	19	11	4.67	USACE		ENP
NP206	21	15	6.67	USACE		ENP
NESR2	25	21	7.88	USACE		ENP
THSO	23	9	4.58	USACE		
RG2	23	15	6.48	USACE		ENP
G3273	24	17	7.46	USACE	PA	ENP
ANGEL	25	17	7.08	USACE	PA	
ANGEL	26	17	7.08	USACE	PA	
EVER4	25	8	2.51	USACE	PA	SA3
E112	23	10	5.20	USACE		ENP
G620	18	19	7.13	USACE		ENP


SFWMM DYNAMIC POSITION ANALYSIS RUN
INITIAL STAGE VALUES SEPTEMBER 1, 2018
N
W
E
S
0 5 10 20
Miles
Stage Class (feet NGVD)
SFWMM Grid
<=1.00
1.01 - 2.00
2.01 - 3.00
3.01 - 4.00
4.01 - 5.00
5.01 - 6.00
6.01 - 7.00
7.01 - 8.00
8.01 - 9.00
9.01 - 10.00
10.01 - 11.00
11.01 - 12.00
12.01 - 13.00
13.01 - 14.00
14.01 - 15.00
15.01 - 16.00
16.01 - 17.00
< 17.00
CREATED: 10SEP2018



SFWMM DYNAMIC POSITION ANALYSIS RUN
PONDING DEPTH VALUES SEPTEMBER 1, 2018



CREATED: 10SEP2018

Lake Okechobee Band Probabilities (%) at the Begining of Each Month
’(See assumptions on the Position Analysis Results website)’
Initial Stage 14.37 ft. for 08/01/2018

Date	HLM	High	Inter	Low	Base	Bene	WSM
2018 08 01	2.4	0.0	0.0	95.1	0.0	0.0	2.4
2018 09 01	2.4	0.0	0.0	95.1	0.0	0.0	2.4
2018 10 01	5.1	1.1	1.8	75.5	14.1	0.0	2.4
2018 11 01	2.4	5.8	5.8	62.9	20.6	0.0	2.4
2018 12 01	2.4	0.0	6.9	54.2	34.1	0.0	2.4
2019 01 01	2.4	0.0	4.3	62.4	28.3	0.0	2.4
2019 02 01	2.4	0.0	7.0	62.6	21.4	4.1	2.4
2019 03 01	2.4	1.4	8.4	53.3	19.6	12.5	2.4
2019 04 01	2.4	4.6	5.8	46.5	15.5	17.8	7.5
2019 05 01	2.4	-0.0	5.8	44.1	11.8	30.1	5.7
2019 06 01	2.4	-0.0	-0.0	41.0	12.2	30.6	13.8
2019 07 01	2.4	-0.0	1.1	46.4	13.3	13.1	23.6

Monthly Supply Side Management Results
for the Lake Okeechobee Service Area
Report by Water Years Oct-Sep
(Volumes in 1000 ac-ft)

Run:
SFWMM v6.7.4 - September 1, 2018 DPA Final LOK Stage 14.58

Note: SSM stands for Supply Side Management
SSMwC.B. stands for Supply Side Management with cutback

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1965	10	0	0	0.90	0.00	0.00	0.00	0.00	0.00	0.00
1965	11	0	0	46.32	0.00	0.00	0.00	0.00	0.00	0.00
1965	12	0	0	40.05	0.00	0.00	0.00	0.00	0.00	0.00
1966	1	0	0	0.61	0.00	0.00	0.00	0.00	0.00	0.00
1966	2	0	0	15.50	0.00	0.00	0.00	0.00	0.00	0.00
1966	3	0	0	62.61	0.00	0.00	0.00	0.00	0.00	0.00
1966	4	0	0	58.05	0.00	0.00	0.00	0.00	0.00	0.00
1966	5	0	0	49.51	0.00	0.00	0.01	0.01	0.01	0.01
1966	6	0	0	5.84	0.00	0.00	0.00	0.00	0.00	0.00
1966	7	0	0	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1966	8	0	0	25.47	0.00	0.00	0.00	0.00	0.00	0.00
1966	9	0	0	0.12	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1966	10	0	0	6.68	0.00	0.00	0.00	0.00	0.00	0.00
1966	11	0	0	82.81	0.00	0.00	0.00	0.00	0.00	0.00
1966	12	0	0	53.91	0.00	0.00	0.00	0.00	0.00	0.00
1967	1	0	0	44.83	0.00	0.00	0.00	0.00	0.00	0.00
1967	2	0	0	26.81	0.00	0.00	0.00	0.00	0.00	0.00
1967	3	0	0	79.65	0.00	0.00	0.00	0.00	0.00	0.00
1967	4	0	0	168.17	0.00	0.00	0.02	0.01	0.02	0.01
1967	5	0	0	204.46	0.00	0.00	1.94	0.95	1.94	0.95
1967	6	29	2	23.64	1.83	7.75	0.00	0.00	1.83	7.75
1967	7	31	1	5.57	0.79	14.13	0.00	0.00	0.79	14.13
1967	8	0	0	25.48	0.00	0.00	0.00	0.00	0.00	0.00
1967	9	0	0	11.98	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1967	10	0	0	1.11	0.00	0.00	0.00	0.00	0.00	0.00
1967	11	0	0	84.74	0.00	0.00	0.00	0.00	0.00	0.00
1967	12	0	0	29.21	0.00	0.00	0.00	0.00	0.00	0.00
1968	1	0	0	59.14	0.00	0.00	0.00	0.00	0.00	0.00
1968	2	0	0	37.27	0.00	0.00	0.01	0.02	0.01	0.02
1968	3	0	0	76.65	0.00	0.00	0.04	0.06	0.04	0.06
1968	4	0	0	131.08	0.00	0.00	0.00	0.00	0.00	0.00
1968	5	0	0	27.54	0.00	0.00	0.00	0.00	0.00	0.00
1968	6	0	0	0.83	0.00	0.00	0.00	0.00	0.00	0.00
1968	7	0	0	11.06	0.00	0.00	0.00	0.00	0.00	0.00
1968	8	0	0	25.37	0.00	0.00	0.00	0.00	0.00	0.00
1968	9	0	0	7.48	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1968	10	0	0	0.54	0.00	0.00	0.00	0.00	0.00	0.00
1968	11	0	0	34.97	0.00	0.00	0.00	0.00	0.00	0.00
1968	12	0	0	83.81	0.00	0.00	0.00	0.00	0.00	0.00
1969	1	0	0	25.70	0.00	0.00	0.00	0.00	0.00	0.00
1969	2	0	0	46.46	0.00	0.00	0.00	0.00	0.00	0.00
1969	3	0	0	12.29	0.00	0.00	0.00	0.00	0.00	0.00
1969	4	0	0	64.26	0.00	0.00	0.00	0.00	0.00	0.00
1969	5	0	0	25.00	0.00	0.00	0.00	0.00	0.00	0.00
1969	6	0	0	23.34	0.00	0.00	0.03	0.11	0.03	0.11
1969	7	0	0	22.06	0.00	0.00	0.00	0.00	0.00	0.00
1969	8	0	0	25.47	0.00	0.00	0.00	0.00	0.00	0.00
1969	9	0	0	0.82	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1969	10	0	0	7.48	0.00	0.00	0.00	0.00	0.00	0.00
1969	11	0	0	10.92	0.00	0.00	0.00	0.00	0.00	0.00
1969	12	0	0	16.82	0.00	0.00	0.00	0.00	0.00	0.00
1970	1	0	0	3.97	0.00	0.00	0.00	0.00	0.00	0.00
1970	2	0	0	12.15	0.00	0.00	0.00	0.00	0.00	0.00
1970	3	0	0	14.04	0.00	0.00	0.00	0.00	0.00	0.00
1970	4	0	0	73.19	0.00	0.00	0.00	0.00	0.00	0.00
1970	5	0	0	161.21	0.00	0.00	0.02	0.02	0.02	0.02
1970	6	0	0	9.38	0.00	0.00	0.00	0.00	0.00	0.00
1970	7	0	0	10.32	0.00	0.00	0.00	0.00	0.00	0.00
1970	8	0	0	25.48	0.00	0.00	0.00	0.00	0.00	0.00
1970	9	0	0	9.26	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1970	10	0	0	9.90	0.00	0.00	0.00	0.00	0.00	0.00
1970	11	0	0	88.34	0.00	0.00	0.00	0.00	0.00	0.00
1970	12	0	0	89.39	0.00	0.00	0.00	0.00	0.00	0.00
1971	1	0	0	64.04	0.00	0.00	0.00	0.00	0.00	0.00
1971	2	0	0	49.05	0.00	0.00	0.07	0.15	0.07	0.15
1971	3	9	8	115.39	9.35	8.10	0.02	0.02	9.37	8.12
1971	4	30	26	178.42	30.41	17.04	0.02	0.01	30.42	17.05
1971	5	31	12	117.08	36.97	31.58	4.55	3.89	41.52	35.46
1971	6	30	4	36.58	3.34	9.14	1.55	4.23	4.89	13.37
1971	7	31	0	0.70	0.00	0.00	0.00	0.00	0.00	0.00
1971	8	0	0	25.48	0.00	0.00	0.00	0.00	0.00	0.00
1971	9	0	0	11.81	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1971	10	0	0	14.27	0.00	0.00	0.00	0.00	0.00	0.00
1971	11	0	0	40.02	0.00	0.00	0.00	0.00	0.00	0.00
1971	12	0	0	48.61	0.00	0.00	0.00	0.00	0.00	0.00
1972	1	0	0	32.54	0.00	0.00	0.00	0.00	0.00	0.00
1972	2	0	0	33.39	0.00	0.00	0.00	0.00	0.00	0.00
1972	3	0	0	88.18	0.00	0.00	0.00	0.00	0.00	0.00
1972	4	0	0	43.52	0.00	0.00	0.00	0.00	0.00	0.00
1972	5	0	0	23.63	0.00	0.00	0.00	0.00	0.00	0.00
1972	6	0	0	31.15	0.00	0.00	0.62	2.00	0.62	2.00
1972	7	0	0	27.29	0.00	0.00	0.00	0.00	0.00	0.00
1972	8	0	0	25.38	0.00	0.00	0.00	0.00	0.00	0.00
1972	9	0	0	34.47	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1972	10	0	0	75.22	0.00	0.00	0.00	0.00	0.00	0.00
1972	11	0	0	21.89	0.00	0.00	0.00	0.00	0.00	0.00
1972	12	0	0	26.60	0.00	0.00	0.09	0.33	0.09	0.33
1973	1	0	0	13.87	0.00	0.00	0.10	0.74	0.10	0.74
1973	2	0	0	9.69	0.00	0.00	0.00	0.00	0.00	0.00
1973	3	0	0	57.29	0.00	0.00	0.19	0.33	0.19	0.33
1973	4	0	0	93.50	0.00	0.00	0.00	0.00	0.00	0.00
1973	5	0	0	116.23	0.00	0.00	0.00	0.00	0.00	0.00
1973	6	0	0	27.63	0.00	0.00	0.00	0.00	0.00	0.00
1973	7	0	0	1.88	0.00	0.00	0.00	0.00	0.00	0.00
1973	8	0	0	25.48	0.00	0.00	0.00	0.00	0.00	0.00
1973	9	0	0	1.52	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1973	10	0	0	17.93	0.00	0.00	0.00	0.00	0.00	0.00
1973	11	0	0	91.21	0.00	0.00	0.00	0.00	0.00	0.00
1973	12	0	0	26.27	0.00	0.00	0.00	0.00	0.00	0.00
1974	1	0	0	45.98	0.00	0.00	0.00	0.00	0.00	0.00
1974	2	0	0	74.87	0.00	0.00	0.00	0.00	0.00	0.00
1974	3	0	0	125.69	0.00	0.00	0.04	0.04	0.04	0.04
1974	4	1	1	109.11	0.72	0.66	0.00	0.00	0.72	0.66
1974	5	31	7	103.56	7.66	7.39	0.57	0.55	8.23	7.95
1974	6	30	0	9.99	0.00	0.00	0.90	8.99	0.90	8.99
1974	7	2	0	1.55	0.00	0.00	0.50	32.08	0.50	32.08
1974	8	0	0	25.47	0.00	0.00	0.00	0.00	0.00	0.00
1974	9	0	0	1.79	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1974	10	0	0	25.61	0.00	0.00	0.00	0.00	0.00	0.00
1974	11	0	0	64.04	0.00	0.00	0.00	0.00	0.00	0.00
1974	12	0	0	18.37	0.00	0.00	0.00	0.00	0.00	0.00
1975	1	0	0	76.43	0.00	0.00	0.00	0.00	0.00	0.00
1975	2	0	0	68.32	0.00	0.00	0.08	0.11	0.08	0.11
1975	3	0	0	97.62	0.00	0.00	0.00	0.00	0.00	0.00
1975	4	0	0	113.39	0.00	0.00	0.00	0.00	0.00	0.00
1975	5	0	0	43.21	0.00	0.00	0.24	0.56	0.24	0.56
1975	6	0	0	4.84	0.00	0.00	0.00	0.00	0.00	0.00
1975	7	24	0	2.61	0.00	0.00	0.00	0.00	0.00	0.00
1975	8	0	0	25.48	0.00	0.00	0.00	0.00	0.00	0.00
1975	9	0	0	0.46	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1975	10	0	0	3.44	0.00	0.00	0.00	0.00	0.00	0.00
1975	11	0	0	52.70	0.00	0.00	0.00	0.00	0.00	0.00
1975	12	0	0	75.72	0.00	0.00	0.00	0.00	0.00	0.00
1976	1	0	0	61.16	0.00	0.00	0.00	0.00	0.00	0.00
1976	2	0	0	64.92	0.00	0.00	0.00	0.00	0.00	0.00
1976	3	0	0	72.45	0.00	0.00	0.09	0.13	0.09	0.13
1976	4	0	0	112.69	0.00	0.00	0.00	0.00	0.00	0.00
1976	5	0	0	9.59	0.00	0.00	0.00	0.00	0.00	0.00
1976	6	0	0	16.56	0.00	0.00	0.00	0.00	0.00	0.00
1976	7	0	0	19.36	0.00	0.00	0.13	0.67	0.13	0.67
1976	8	0	0	25.37	0.00	0.00	0.00	0.00	0.00	0.00
1976	9	0	0	2.28	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1976	10	0	0	63.39	0.00	0.00	0.00	0.00	0.00	0.00
1976	11	0	0	45.80	0.00	0.00	0.00	0.00	0.00	0.00
1976	12	0	0	22.51	0.00	0.00	0.00	0.00	0.00	0.00
1977	1	0	0	1.53	0.00	0.00	0.00	0.00	0.00	0.00
1977	2	0	0	52.41	0.00	0.00	0.00	0.00	0.00	0.00
1977	3	0	0	106.71	0.00	0.00	0.00	0.00	0.00	0.00
1977	4	0	0	135.32	0.00	0.00	0.00	0.00	0.00	0.00
1977	5	0	0	42.30	0.00	0.00	0.03	0.06	0.03	0.06
1977	6	1	0	60.41	0.00	0.00	0.08	0.13	0.08	0.13
1977	7	31	3	18.70	3.81	20.39	0.00	0.00	3.81	20.39
1977	8	0	0	25.48	0.00	0.00	0.00	0.00	0.00	0.00
1977	9	0	0	0.12	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1977	10	0	0	64.98	0.00	0.00	0.00	0.00	0.00	0.00
1977	11	0	0	17.16	0.00	0.00	0.00	0.00	0.00	0.00
1977	12	0	0	1.08	0.00	0.00	0.00	0.00	0.00	0.00
1978	1	0	0	6.71	0.00	0.00	0.00	0.00	0.00	0.00
1978	2	0	0	24.85	0.00	0.00	0.00	0.00	0.00	0.00
1978	3	0	0	48.18	0.00	0.00	0.00	0.00	0.00	0.00
1978	4	0	0	108.70	0.00	0.00	0.00	0.00	0.00	0.00
1978	5	0	0	17.79	0.00	0.00	0.00	0.00	0.00	0.00
1978	6	0	0	20.76	0.00	0.00	0.00	0.00	0.00	0.00
1978	7	0	0	1.08	0.00	0.00	0.00	0.00	0.00	0.00
1978	8	0	0	25.47	0.00	0.00	0.00	0.00	0.00	0.00
1978	9	0	0	2.61	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1978	10	0	0	8.74	0.00	0.00	0.00	0.00	0.00	0.00
1978	11	0	0	24.47	0.00	0.00	0.00	0.00	0.00	0.00
1978	12	0	0	17.74	0.00	0.00	0.00	0.00	0.00	0.00
1979	1	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1979	2	0	0	39.75	0.00	0.00	0.00	0.00	0.00	0.00
1979	3	0	0	73.33	0.00	0.00	0.00	0.00	0.00	0.00
1979	4	0	0	115.19	0.00	0.00	0.00	0.00	0.00	0.00
1979	5	0	0	0.28	0.00	0.00	0.00	0.00	0.00	0.00
1979	6	0	0	154.25	0.00	0.00	1.90	1.23	1.90	1.23
1979	7	0	0	21.82	0.00	0.00	0.00	0.00	0.00	0.00
1979	8	0	0	25.48	0.00	0.00	0.00	0.00	0.00	0.00
1979	9	0	0	0.37	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1979	10	0	0	12.74	0.00	0.00	0.00	0.00	0.00	0.00
1979	11	0	0	4.36	0.00	0.00	0.00	0.00	0.00	0.00
1979	12	0	0	19.43	0.00	0.00	0.00	0.00	0.00	0.00
1980	1	0	0	36.02	0.00	0.00	0.00	0.00	0.00	0.00
1980	2	0	0	11.50	0.00	0.00	0.00	0.00	0.00	0.00
1980	3	0	0	64.87	0.00	0.00	0.00	0.00	0.00	0.00
1980	4	0	0	13.00	0.00	0.00	0.00	0.00	0.00	0.00
1980	5	0	0	98.00	0.00	0.00	0.00	0.00	0.00	0.00
1980	6	0	0	130.47	0.00	0.00	0.78	0.60	0.78	0.60
1980	7	0	0	14.40	0.00	0.00	0.00	0.00	0.00	0.00
1980	8	0	0	25.37	0.00	0.00	0.00	0.00	0.00	0.00
1980	9	0	0	2.73	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1980	10	0	0	73.61	0.00	0.00	0.00	0.00	0.00	0.00
1980	11	0	0	26.74	0.00	0.00	0.01	0.03	0.01	0.03
1980	12	0	0	39.98	0.00	0.00	0.00	0.00	0.00	0.00
1981	1	0	0	66.62	0.00	0.00	0.00	0.00	0.00	0.00
1981	2	0	0	28.99	0.00	0.00	0.11	0.38	0.11	0.38
1981	3	0	0	78.03	0.00	0.00	0.04	0.05	0.04	0.05
1981	4	0	0	153.34	0.00	0.00	0.02	0.01	0.02	0.01
1981	5	29	17	171.36	44.87	26.19	2.87	1.68	47.75	27.86
1981	6	30	11	86.38	28.58	33.09	4.49	5.19	33.07	38.29
1981	7	31	17	71.15	46.33	65.12	0.00	0.00	46.33	65.12
1981	8	0	0	25.47	0.00	0.00	0.00	0.00	0.00	0.00
1981	9	0	0	2.15	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1981	10	0	0	97.87	0.00	0.00	0.00	0.00	0.00	0.00
1981	11	0	0	47.65	0.00	0.00	0.00	0.00	0.00	0.00
1981	12	0	0	88.94	0.00	0.00	0.00	0.00	0.00	0.00
1982	1	0	0	59.70	0.00	0.00	0.00	0.00	0.00	0.00
1982	2	0	0	20.00	0.00	0.00	0.00	0.00	0.00	0.00
1982	3	0	0	29.85	0.00	0.00	0.00	0.00	0.00	0.00
1982	4	0	0	11.29	0.00	0.00	0.00	0.00	0.00	0.00
1982	5	0	0	107.15	0.00	0.00	0.00	0.00	0.00	0.00
1982	6	0	0	19.51	0.00	0.00	0.09	0.44	0.09	0.44
1982	7	0	0	4.86	0.00	0.00	0.00	0.00	0.00	0.00
1982	8	0	0	25.48	0.00	0.00	0.00	0.00	0.00	0.00
1982	9	0	0	3.82	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1982	10	0	0	13.25	0.00	0.00	0.00	0.00	0.00	0.00
1982	11	0	0	44.70	0.00	0.00	0.00	0.00	0.00	0.00
1982	12	0	0	46.90	0.00	0.00	0.00	0.00	0.00	0.00
1983	1	0	0	21.83	0.00	0.00	0.00	0.00	0.00	0.00
1983	2	0	0	0.28	0.00	0.00	0.00	0.00	0.00	0.00
1983	3	0	0	0.07	0.00	0.00	0.00	0.00	0.00	0.00
1983	4	0	0	28.79	0.00	0.00	0.00	0.00	0.00	0.00
1983	5	0	0	207.10	0.00	0.00	0.02	0.01	0.02	0.01
1983	6	0	0	28.55	0.00	0.00	0.00	0.00	0.00	0.00
1983	7	0	0	32.81	0.00	0.00	0.00	0.00	0.00	0.00
1983	8	0	0	25.48	0.00	0.00	0.00	0.00	0.00	0.00
1983	9	0	0	6.32	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1983	10	0	0	3.26	0.00	0.00	0.00	0.00	0.00	0.00
1983	11	0	0	19.77	0.00	0.00	0.00	0.00	0.00	0.00
1983	12	0	0	16.84	0.00	0.00	0.00	0.00	0.00	0.00
1984	1	0	0	29.11	0.00	0.00	0.00	0.00	0.00	0.00
1984	2	0	0	31.91	0.00	0.00	0.00	0.00	0.00	0.00
1984	3	0	0	15.23	0.00	0.00	0.00	0.00	0.00	0.00
1984	4	0	0	48.23	0.00	0.00	0.00	0.00	0.00	0.00
1984	5	0	0	119.17	0.00	0.00	0.00	0.00	0.00	0.00
1984	6	0	0	52.44	0.00	0.00	0.11	0.20	0.11	0.20
1984	7	0	0	0.98	0.00	0.00	0.00	0.00	0.00	0.00
1984	8	0	0	25.37	0.00	0.00	0.00	0.00	0.00	0.00
1984	9	0	0	12.75	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1984	10	0	0	51.64	0.00	0.00	0.00	0.00	0.00	0.00
1984	11	0	0	57.16	0.00	0.00	0.00	0.00	0.00	0.00
1984	12	0	0	47.30	0.00	0.00	0.00	0.00	0.00	0.00
1985	1	0	0	57.15	0.00	0.00	0.00	0.00	0.00	0.00
1985	2	0	0	89.16	0.00	0.00	0.00	0.00	0.00	0.00
1985	3	2	2	80.66	1.66	2.06	0.02	0.02	1.68	2.08
1985	4	13	0	28.97	0.00	0.00	0.00	0.00	0.00	0.00
1985	5	6	1	110.68	0.63	0.57	0.11	0.10	0.74	0.67
1985	6	30	10	111.34	49.86	44.79	5.57	5.00	55.43	49.79
1985	7	31	2	5.57	1.62	29.03	0.00	0.00	1.62	29.03
1985	8	0	0	25.48	0.00	0.00	0.00	0.00	0.00	0.00
1985	9	0	0	0.56	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1985	10	0	0	7.90	0.00	0.00	0.00	0.00	0.00	0.00
1985	11	0	0	33.79	0.00	0.00	0.00	0.00	0.00	0.00
1985	12	0	0	17.86	0.00	0.00	0.00	0.00	0.00	0.00
1986	1	0	0	11.75	0.00	0.00	0.00	0.00	0.00	0.00
1986	2	0	0	46.19	0.00	0.00	0.00	0.00	0.00	0.00
1986	3	0	0	18.28	0.00	0.00	0.00	0.00	0.00	0.00
1986	4	0	0	138.17	0.00	0.00	0.00	0.00	0.00	0.00
1986	5	0	0	132.86	0.00	0.00	0.07	0.05	0.07	0.05
1986	6	0	0	18.63	0.00	0.00	0.00	0.00	0.00	0.00
1986	7	0	0	3.14	0.00	0.00	0.00	0.00	0.00	0.00
1986	8	0	0	25.47	0.00	0.00	0.00	0.00	0.00	0.00
1986	9	0	0	6.64	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1986	10	0	0	29.80	0.00	0.00	0.00	0.00	0.00	0.00
1986	11	0	0	21.75	0.00	0.00	0.00	0.00	0.00	0.00
1986	12	0	0	37.33	0.00	0.00	0.00	0.01	0.00	0.01
1987	1	0	0	11.50	0.00	0.00	0.00	0.00	0.00	0.00
1987	2	0	0	20.01	0.00	0.00	0.00	0.00	0.00	0.00
1987	3	0	0	19.26	0.00	0.00	0.00	0.00	0.00	0.00
1987	4	0	0	107.33	0.00	0.00	0.02	0.02	0.02	0.02
1987	5	0	0	111.22	0.00	0.00	0.00	0.00	0.00	0.00
1987	6	0	0	110.24	0.00	0.00	0.14	0.13	0.14	0.13
1987	7	0	0	13.37	0.00	0.00	0.00	0.00	0.00	0.00
1987	8	0	0	25.47	0.00	0.00	0.00	0.00	0.00	0.00
1987	9	0	0	8.36	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1987	10	0	0	16.76	0.00	0.00	0.00	0.00	0.00	0.00
1987	11	0	0	2.14	0.00	0.00	0.00	0.00	0.00	0.00
1987	12	0	0	34.11	0.00	0.00	0.00	0.00	0.00	0.00
1988	1	0	0	8.94	0.00	0.00	0.00	0.00	0.00	0.00
1988	2	0	0	11.30	0.00	0.00	0.00	0.00	0.00	0.00
1988	3	0	0	25.05	0.00	0.00	0.00	0.00	0.00	0.00
1988	4	0	0	135.80	0.00	0.00	0.00	0.00	0.00	0.00
1988	5	0	0	109.32	0.00	0.00	0.00	0.00	0.00	0.00
1988	6	0	0	55.18	0.00	0.00	0.23	0.41	0.23	0.41
1988	7	0	0	6.53	0.00	0.00	0.00	0.00	0.00	0.00
1988	8	0	0	25.37	0.00	0.00	0.00	0.00	0.00	0.00
1988	9	0	0	47.93	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1988	10	0	0	123.10	0.00	0.00	0.00	0.00	0.00	0.00
1988	11	0	0	27.19	0.00	0.00	0.00	0.00	0.00	0.00
1988	12	0	0	47.53	0.00	0.00	0.02	0.05	0.02	0.05
1989	1	0	0	53.94	0.00	0.00	0.14	0.26	0.14	0.26
1989	2	0	0	85.69	0.00	0.00	0.00	0.00	0.00	0.00
1989	3	1	0	52.51	0.00	0.00	0.00	0.00	0.00	0.00
1989	4	14	0	44.23	0.00	0.00	0.00	0.00	0.00	0.00
1989	5	0	0	130.39	0.00	0.00	1.50	1.15	1.50	1.15
1989	6	28	17	144.81	48.63	33.58	2.93	2.03	51.56	35.61
1989	7	31	11	36.17	19.46	53.79	0.00	0.00	19.46	53.79
1989	8	0	0	25.48	0.00	0.00	0.00	0.00	0.00	0.00
1989	9	0	0	0.80	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1989	10	0	0	13.90	0.00	0.00	0.00	0.00	0.00	0.00
1989	11	0	0	86.05	0.00	0.00	0.00	0.00	0.00	0.00
1989	12	0	0	22.57	0.00	0.00	0.00	0.00	0.00	0.00
1990	1	0	0	58.00	0.00	0.00	0.00	0.00	0.00	0.00
1990	2	0	0	12.20	0.00	0.00	0.00	0.00	0.00	0.00
1990	3	0	0	68.67	0.00	0.00	0.00	0.00	0.00	0.00
1990	4	0	0	92.54	0.00	0.00	0.00	0.00	0.00	0.00
1990	5	0	0	47.86	0.00	0.00	0.00	0.00	0.00	0.00
1990	6	0	0	55.94	0.00	0.00	1.36	2.43	1.36	2.43
1990	7	0	0	5.12	0.00	0.00	0.01	0.26	0.01	0.26
1990	8	0	0	25.48	0.00	0.00	0.00	0.00	0.00	0.00
1990	9	0	0	19.76	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1990	10	0	0	14.35	0.00	0.00	0.00	0.00	0.00	0.00
1990	11	0	0	76.40	0.00	0.00	0.00	0.00	0.00	0.00
1990	12	0	0	78.29	0.00	0.00	0.00	0.00	0.00	0.00
1991	1	0	0	4.85	0.00	0.00	0.00	0.00	0.00	0.00
1991	2	0	0	26.53	0.00	0.00	0.00	0.00	0.00	0.00
1991	3	0	0	54.71	0.00	0.00	0.00	0.00	0.00	0.00
1991	4	0	0	3.86	0.00	0.00	0.00	0.00	0.00	0.00
1991	5	0	0	49.85	0.00	0.00	0.00	0.00	0.00	0.00
1991	6	0	0	15.44	0.00	0.00	0.00	0.00	0.00	0.00
1991	7	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1991	8	0	0	25.47	0.00	0.00	0.00	0.00	0.00	0.00
1991	9	0	0	5.51	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1991	10	0	0	11.79	0.00	0.00	0.00	0.00	0.00	0.00
1991	11	0	0	43.00	0.00	0.00	0.00	0.00	0.00	0.00
1991	12	0	0	34.60	0.00	0.00	0.00	0.00	0.00	0.00
1992	1	0	0	19.73	0.00	0.00	0.00	0.00	0.00	0.00
1992	2	0	0	22.42	0.00	0.00	0.00	0.00	0.00	0.00
1992	3	0	0	31.20	0.00	0.00	0.00	0.00	0.00	0.00
1992	4	0	0	6.80	0.00	0.00	0.00	0.00	0.00	0.00
1992	5	0	0	204.70	0.00	0.00	0.81	0.39	0.81	0.39
1992	6	0	0	20.65	0.00	0.00	0.05	0.25	0.05	0.25
1992	7	0	0	17.56	0.00	0.00	0.00	0.00	0.00	0.00
1992	8	0	0	25.38	0.00	0.00	0.00	0.00	0.00	0.00
1992	9	0	0	1.54	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1992	10	0	0	50.93	0.00	0.00	0.00	0.00	0.00	0.00
1992	11	0	0	19.90	0.00	0.00	0.00	0.00	0.00	0.00
1992	12	0	0	38.91	0.00	0.00	0.00	0.00	0.00	0.00
1993	1	0	0	0.19	0.00	0.00	0.00	0.00	0.00	0.00
1993	2	0	0	7.62	0.00	0.00	0.00	0.00	0.00	0.00
1993	3	0	0	19.72	0.00	0.00	0.00	0.00	0.00	0.00
1993	4	0	0	55.89	0.00	0.00	0.00	0.00	0.00	0.00
1993	5	0	0	181.47	0.00	0.00	0.01	0.00	0.01	0.00
1993	6	0	0	39.00	0.00	0.00	0.00	0.00	0.00	0.00
1993	7	0	0	43.67	0.00	0.00	0.00	0.00	0.00	0.00
1993	8	0	0	25.47	0.00	0.00	0.00	0.00	0.00	0.00
1993	9	0	0	2.77	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1993	10	0	0	3.05	0.00	0.00	0.00	0.00	0.00	0.00
1993	11	0	0	34.61	0.00	0.00	0.00	0.00	0.00	0.00
1993	12	0	0	46.21	0.00	0.00	0.00	0.00	0.00	0.00
1994	1	0	0	7.00	0.00	0.00	0.00	0.00	0.00	0.00
1994	2	0	0	8.79	0.00	0.00	0.00	0.00	0.00	0.00
1994	3	0	0	43.55	0.00	0.00	0.00	0.00	0.00	0.00
1994	4	0	0	48.92	0.00	0.00	0.00	0.00	0.00	0.00
1994	5	0	0	97.57	0.00	0.00	0.00	0.00	0.00	0.00
1994	6	0	0	18.42	0.00	0.00	0.00	0.00	0.00	0.00
1994	7	0	0	16.56	0.00	0.00	0.00	0.00	0.00	0.00
1994	8	0	0	25.47	0.00	0.00	0.00	0.00	0.00	0.00
1994	9	0	0	1.52	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1994	10	0	0	7.59	0.00	0.00	0.00	0.00	0.00	0.00
1994	11	0	0	10.47	0.00	0.00	0.00	0.00	0.00	0.00
1994	12	0	0	0.29	0.00	0.00	0.00	0.00	0.00	0.00
1995	1	0	0	3.47	0.00	0.00	0.00	0.00	0.00	0.00
1995	2	0	0	7.81	0.00	0.00	0.00	0.00	0.00	0.00
1995	3	0	0	30.38	0.00	0.00	0.00	0.00	0.00	0.00
1995	4	0	0	73.11	0.00	0.00	0.00	0.00	0.00	0.00
1995	5	0	0	92.11	0.00	0.00	0.00	0.00	0.00	0.00
1995	6	0	0	25.18	0.00	0.00	0.29	1.16	0.29	1.16
1995	7	0	0	11.65	0.00	0.00	0.00	0.00	0.00	0.00
1995	8	0	0	25.47	0.00	0.00	0.00	0.00	0.00	0.00
1995	9	0	0	10.72	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1995	10	0	0	0.86	0.00	0.00	0.00	0.00	0.00	0.00
1995	11	0	0	45.21	0.00	0.00	0.00	0.00	0.00	0.00
1995	12	0	0	32.38	0.00	0.00	0.00	0.00	0.00	0.00
1996	1	0	0	12.81	0.00	0.00	0.00	0.00	0.00	0.00
1996	2	0	0	73.79	0.00	0.00	0.00	0.00	0.00	0.00
1996	3	0	0	33.82	0.00	0.00	0.00	0.00	0.00	0.00
1996	4	0	0	60.09	0.00	0.00	0.00	0.00	0.00	0.00
1996	5	0	0	34.69	0.00	0.00	0.00	0.00	0.00	0.00
1996	6	0	0	2.97	0.00	0.00	0.00	0.00	0.00	0.00
1996	7	0	0	55.28	0.00	0.00	0.00	0.00	0.00	0.00
1996	8	0	0	25.38	0.00	0.00	0.00	0.00	0.00	0.00
1996	9	0	0	29.01	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1996	10	0	0	15.80	0.00	0.00	0.00	0.00	0.00	0.00
1996	11	0	0	65.40	0.00	0.00	0.00	0.00	0.00	0.00
1996	12	0	0	70.68	0.00	0.00	0.00	0.00	0.00	0.00
1997	1	0	0	41.48	0.00	0.00	0.00	0.00	0.00	0.00
1997	2	0	0	45.38	0.00	0.00	0.62	1.37	0.62	1.37
1997	3	0	0	60.17	0.00	0.00	0.78	1.30	0.78	1.30
1997	4	0	0	30.65	0.00	0.00	0.00	0.00	0.00	0.00
1997	5	0	0	19.37	0.00	0.00	0.10	0.53	0.10	0.53
1997	6	0	0	31.81	0.00	0.00	0.62	1.96	0.62	1.96
1997	7	0	0	12.26	0.00	0.00	0.00	0.00	0.00	0.00
1997	8	0	0	25.47	0.00	0.00	0.00	0.00	0.00	0.00
1997	9	0	0	6.10	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1997	10	0	0	46.82	0.00	0.00	0.00	0.00	0.00	0.00
1997	11	0	0	16.17	0.00	0.00	0.00	0.00	0.00	0.00
1997	12	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	1	0	0	2.17	0.00	0.00	0.00	0.00	0.00	0.00
1998	2	0	0	1.97	0.00	0.00	0.00	0.00	0.00	0.00
1998	3	0	0	4.62	0.00	0.00	0.00	0.00	0.00	0.00
1998	4	0	0	92.47	0.00	0.00	0.00	0.00	0.00	0.00
1998	5	0	0	132.44	0.00	0.00	0.15	0.12	0.15	0.12
1998	6	0	0	153.06	0.00	0.00	1.48	0.96	1.48	0.96
1998	7	0	0	23.81	0.00	0.00	0.00	0.00	0.00	0.00
1998	8	0	0	25.48	0.00	0.00	0.00	0.00	0.00	0.00
1998	9	0	0	0.81	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1998	10	0	0	22.75	0.00	0.00	0.00	0.00	0.00	0.00
1998	11	0	0	18.22	0.00	0.00	0.00	0.00	0.00	0.00
1998	12	0	0	30.90	0.00	0.00	0.00	0.00	0.00	0.00
1999	1	0	0	10.17	0.00	0.00	0.00	0.00	0.00	0.00
1999	2	0	0	44.99	0.00	0.00	0.00	0.00	0.00	0.00
1999	3	0	0	122.65	0.00	0.00	0.00	0.00	0.00	0.00
1999	4	0	0	130.14	0.00	0.00	0.00	0.00	0.00	0.00
1999	5	0	0	90.43	0.00	0.00	0.20	0.22	0.20	0.22
1999	6	0	0	6.47	0.00	0.00	0.00	0.00	0.00	0.00
1999	7	0	0	8.74	0.00	0.00	0.00	0.00	0.00	0.00
1999	8	0	0	25.49	0.00	0.00	0.00	0.00	0.00	0.00
1999	9	0	0	0.32	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1999	10	0	0	0.42	0.00	0.00	0.00	0.00	0.00	0.00
1999	11	0	0	37.41	0.00	0.00	0.00	0.00	0.00	0.00
1999	12	0	0	47.21	0.00	0.00	0.00	0.00	0.00	0.00
2000	1	0	0	59.45	0.00	0.00	0.00	0.00	0.00	0.00
2000	2	0	0	64.99	0.00	0.00	0.00	0.00	0.00	0.00
2000	3	0	0	72.50	0.00	0.00	0.00	0.00	0.00	0.00
2000	4	0	0	72.59	0.00	0.00	0.00	0.00	0.00	0.00
2000	5	0	0	185.56	0.00	0.00	0.09	0.05	0.09	0.05
2000	6	0	0	151.54	0.00	0.00	1.10	0.73	1.10	0.73
2000	7	15	0	1.90	0.00	0.00	0.00	0.00	0.00	0.00
2000	8	0	0	25.37	0.00	0.00	0.00	0.00	0.00	0.00
2000	9	0	0	3.62	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
2000	10	0	0	42.01	0.00	0.00	0.00	0.00	0.00	0.00
2000	11	0	0	96.50	0.00	0.00	0.00	0.00	0.00	0.00
2000	12	0	0	79.96	0.00	0.00	0.01	0.01	0.01	0.01
2001	1	0	0	59.16	0.00	0.00	0.00	0.00	0.00	0.00
2001	2	0	0	96.42	0.00	0.00	0.00	0.00	0.00	0.00
2001	3	0	0	59.85	0.00	0.00	0.05	0.08	0.05	0.08
2001	4	0	0	119.61	0.00	0.00	0.00	0.00	0.00	0.00
2001	5	14	4	144.74	10.02	6.92	0.15	0.10	10.17	7.03
2001	6	30	5	47.72	6.63	13.90	0.00	0.00	6.63	13.90
2001	7	31	2	12.01	3.15	26.23	0.00	0.00	3.15	26.23
2001	8	0	0	25.47	0.00	0.00	0.00	0.00	0.00	0.00
2001	9	0	0	3.74	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
2001	10	0	0	10.03	0.00	0.00	0.00	0.00	0.00	0.00
2001	11	0	0	41.28	0.00	0.00	0.00	0.00	0.00	0.00
2001	12	0	0	42.75	0.00	0.00	0.00	0.01	0.00	0.01
2002	1	0	0	29.05	0.00	0.00	0.00	0.00	0.00	0.00
2002	2	0	0	30.52	0.00	0.00	0.00	0.00	0.00	0.00
2002	3	0	0	78.94	0.00	0.00	0.00	0.00	0.00	0.00
2002	4	0	0	107.28	0.00	0.00	0.00	0.00	0.00	0.00
2002	5	0	0	155.66	0.00	0.00	0.05	0.03	0.05	0.03
2002	6	0	0	64.54	0.00	0.00	0.14	0.21	0.14	0.21
2002	7	0	0	12.20	0.00	0.00	0.00	0.00	0.00	0.00
2002	8	0	0	25.49	0.00	0.00	0.00	0.00	0.00	0.00
2002	9	0	0	11.12	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
2002	10	0	0	11.83	0.00	0.00	0.00	0.00	0.00	0.00
2002	11	0	0	30.69	0.00	0.00	0.00	0.00	0.00	0.00
2002	12	0	0	7.57	0.00	0.00	0.00	0.00	0.00	0.00
2003	1	0	0	45.74	0.00	0.00	0.00	0.00	0.00	0.00
2003	2	0	0	56.63	0.00	0.00	0.00	0.00	0.00	0.00
2003	3	0	0	34.87	0.00	0.00	0.00	0.00	0.00	0.00
2003	4	0	0	68.23	0.00	0.00	0.00	0.00	0.00	0.00
2003	5	0	0	55.31	0.00	0.00	0.00	0.00	0.00	0.00
2003	6	0	0	15.43	0.00	0.00	0.00	0.00	0.00	0.00
2003	7	0	0	13.81	0.00	0.00	0.00	0.00	0.00	0.00
2003	8	0	0	25.47	0.00	0.00	0.00	0.00	0.00	0.00
2003	9	0	0	1.41	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
2003	10	0	0	41.34	0.00	0.00	0.00	0.00	0.00	0.00
2003	11	0	0	32.71	0.00	0.00	0.00	0.00	0.00	0.00
2003	12	0	0	28.66	0.00	0.00	0.01	0.02	0.01	0.02
2004	1	0	0	45.45	0.00	0.00	0.00	0.00	0.00	0.00
2004	2	0	0	17.52	0.00	0.00	0.00	0.00	0.00	0.00
2004	3	0	0	100.00	0.00	0.00	0.00	0.00	0.00	0.00
2004	4	0	0	99.32	0.00	0.00	0.05	0.05	0.05	0.05
2004	5	0	0	195.40	0.00	0.00	0.20	0.10	0.20	0.10
2004	6	2	0	52.22	0.00	0.00	0.04	0.07	0.04	0.07
2004	7	31	15	40.67	12.50	30.73	0.03	0.08	12.53	30.80
2004	8	0	0	25.37	0.00	0.00	0.00	0.00	0.00	0.00
2004	9	0	0	0.91	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
2004	10	0	0	8.35	0.00	0.00	0.00	0.00	0.00	0.00
2004	11	0	0	42.60	0.00	0.00	0.00	0.00	0.00	0.00
2004	12	0	0	58.81	0.00	0.00	0.00	0.00	0.00	0.00
2005	1	0	0	44.68	0.00	0.00	0.00	0.00	0.00	0.00
2005	2	0	0	79.34	0.00	0.00	0.00	0.00	0.00	0.00
2005	3	0	0	0.41	0.00	0.00	0.00	0.00	0.00	0.00
2005	4	0	0	59.79	0.00	0.00	0.00	0.00	0.00	0.00
2005	5	0	0	67.04	0.00	0.00	0.01	0.02	0.01	0.02
2005	6	0	0	4.37	0.00	0.00	0.00	0.00	0.00	0.00
2005	7	0	0	19.67	0.00	0.00	0.00	0.00	0.00	0.00
2005	8	0	0	25.48	0.00	0.00	0.00	0.00	0.00	0.00
2005	9	0	0	12.71	0.00	0.00	0.00	0.00	0.00	0.00

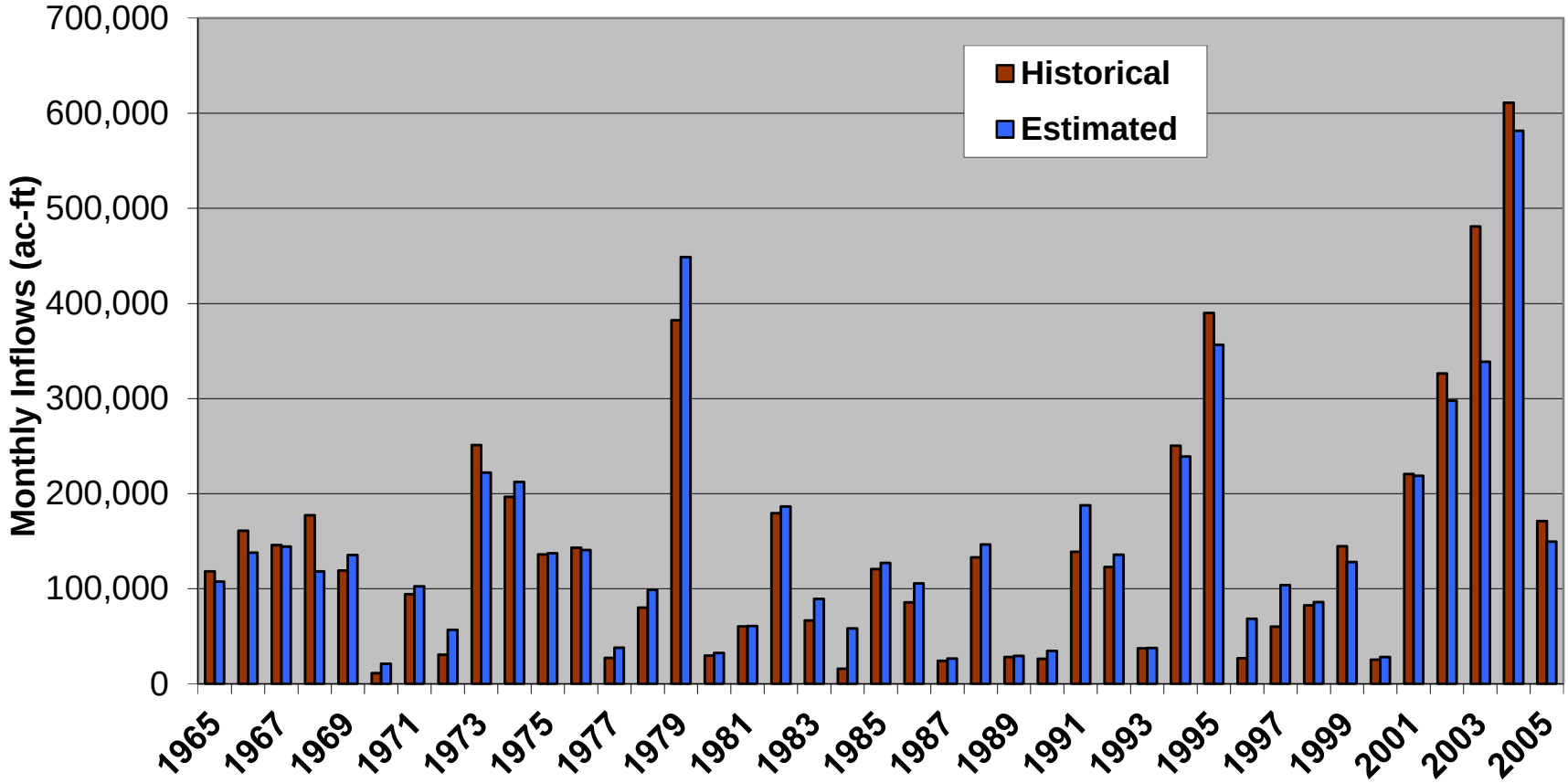
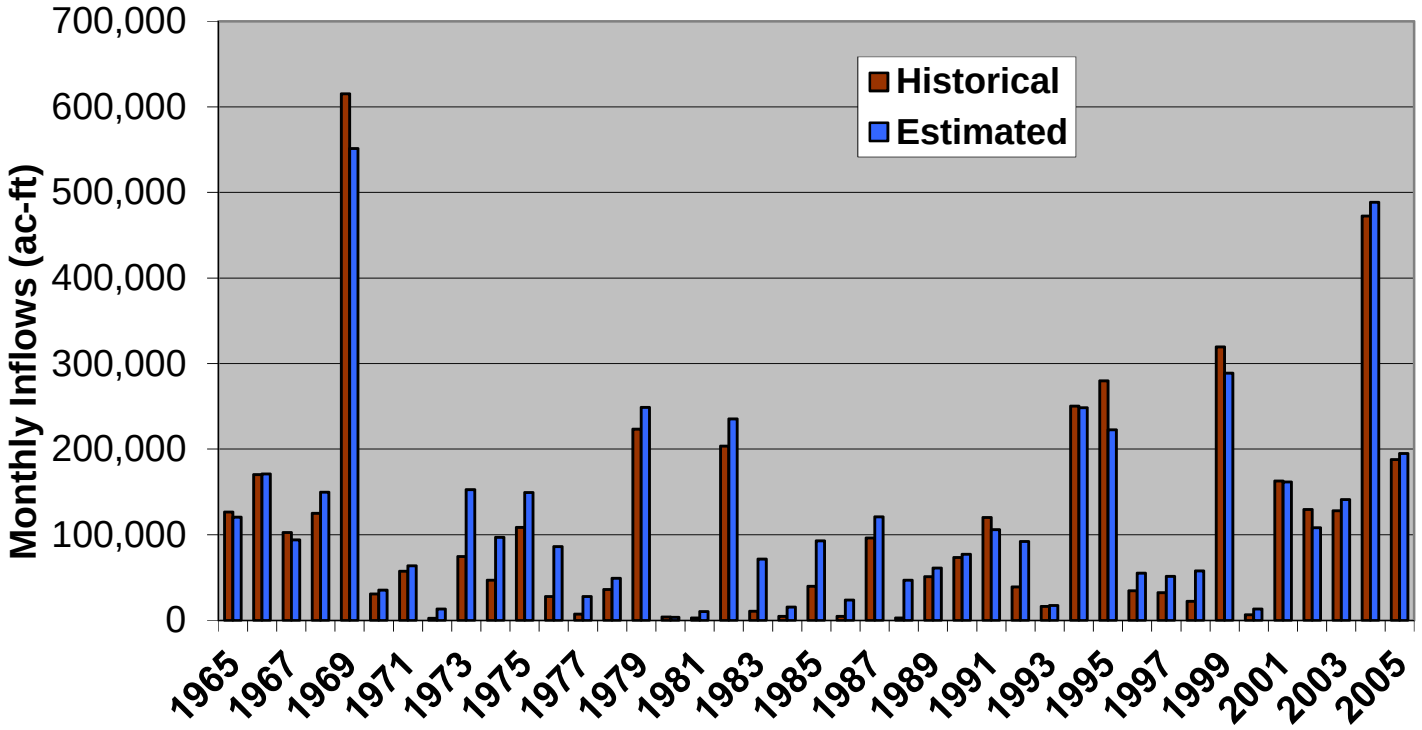
Annual Supply Side Management Results
for the Lake Okeechobee Service Area
Report by Water Years Oct-Sep
(Volumes in 1000 ac-ft)

Run:
SFWMM v6.7.4 - September 1, 2018 DPA Final LOK Stage 14.58

Note: SSM stands for Supply Side Management
SSMwC.B. stands for Supply Side Management with cutback

Wat_Year	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1966	0	0	304.99	0.00	0.00	0.01	0.00	0.01	0.00
1967	60	3	734.00	2.62	0.36	1.96	0.27	4.58	0.62
1968	0	0	491.47	0.00	0.00	0.05	0.01	0.05	0.01
1969	0	0	364.71	0.00	0.00	0.03	0.01	0.03	0.01
1970	0	0	354.22	0.00	0.00	0.02	0.01	0.02	0.01
1971	131	50	786.19	80.07	10.18	6.21	0.79	86.28	10.97
1972	0	0	442.43	0.00	0.00	0.62	0.14	0.62	0.14
1973	0	0	470.80	0.00	0.00	0.38	0.08	0.38	0.08
1974	64	8	633.41	8.38	1.32	2.01	0.32	10.39	1.64
1975	24	0	540.38	0.00	0.00	0.32	0.06	0.32	0.06
1976	0	0	516.23	0.00	0.00	0.22	0.04	0.22	0.04
1977	32	3	574.67	3.81	0.66	0.11	0.02	3.92	0.68
1978	0	0	339.37	0.00	0.00	0.00	0.00	0.00	0.00
1979	0	0	481.41	0.00	0.00	1.90	0.40	1.90	0.40
1980	0	0	432.90	0.00	0.00	0.78	0.18	0.78	0.18
1981	90	45	823.81	119.79	14.54	7.53	0.91	127.32	15.46
1982	0	0	516.13	0.00	0.00	0.09	0.02	0.09	0.02
1983	0	0	456.08	0.00	0.00	0.02	0.00	0.02	0.00
1984	0	0	375.06	0.00	0.00	0.11	0.03	0.11	0.03
1985	82	15	665.66	53.77	8.08	5.70	0.86	59.47	8.93
1986	0	0	460.69	0.00	0.00	0.07	0.01	0.07	0.01
1987	0	0	515.65	0.00	0.00	0.17	0.03	0.17	0.03
1988	0	0	478.45	0.00	0.00	0.23	0.05	0.23	0.05
1989	74	28	771.81	68.09	8.82	4.60	0.60	72.68	9.42
1990	0	0	508.08	0.00	0.00	1.37	0.27	1.37	0.27
1991	0	0	355.26	0.00	0.00	0.00	0.00	0.00	0.00
1992	0	0	439.37	0.00	0.00	0.86	0.20	0.86	0.20
1993	0	0	485.53	0.00	0.00	0.01	0.00	0.01	0.00
1994	0	0	351.68	0.00	0.00	0.00	0.00	0.00	0.00
1995	0	0	298.26	0.00	0.00	0.29	0.10	0.29	0.10
1996	0	0	406.30	0.00	0.00	0.00	0.00	0.00	0.00
1997	0	0	424.57	0.00	0.00	2.13	0.50	2.13	0.50
1998	0	0	499.82	0.00	0.00	1.63	0.33	1.63	0.33
1999	0	0	511.26	0.00	0.00	0.20	0.04	0.20	0.04
2000	15	0	722.57	0.00	0.00	1.19	0.16	1.19	0.16
2001	75	11	787.19	19.80	2.52	0.20	0.03	20.01	2.54
2002	0	0	608.84	0.00	0.00	0.19	0.03	0.19	0.03
2003	0	0	366.99	0.00	0.00	0.00	0.00	0.00	0.00
2004	33	15	679.57	12.50	1.84	0.32	0.05	12.82	1.89
2005	0	0	423.25	0.00	0.00	0.01	0.00	0.01	0.00

September 2018 Dynamic Position Analysis
Historical and Estimated S-65E Monthly Flow
for September from 1965 - 2005



September 15 2018 Dynamic Position Analysis
Historical and Estimated S-65E Monthly Flow
for October from 1965 - 2005