

## Dynamic Position Analysis for April 1, 2019

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### SFWMM Model Simulation of 41 years ( 1965-2005 )

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# April 1, 2019 Dynamic Position Analysis Using Hybrid LOWSM Modeling Assumptions

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- April 1, 2019 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 March 1<sup>st</sup> 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.

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

- El Niño conditions are present. Weak El Niño conditions are expected to continue through spring 2019 (~80% chance) and summer (~60 chance).
- ENSO (El Niño Southern Oscillation) years (El Niño, La Niña and ENSO Neutral) are selected by locating the current month as it falls in the middle of the 3-month average in the official ONI table from NOAA/CPC:

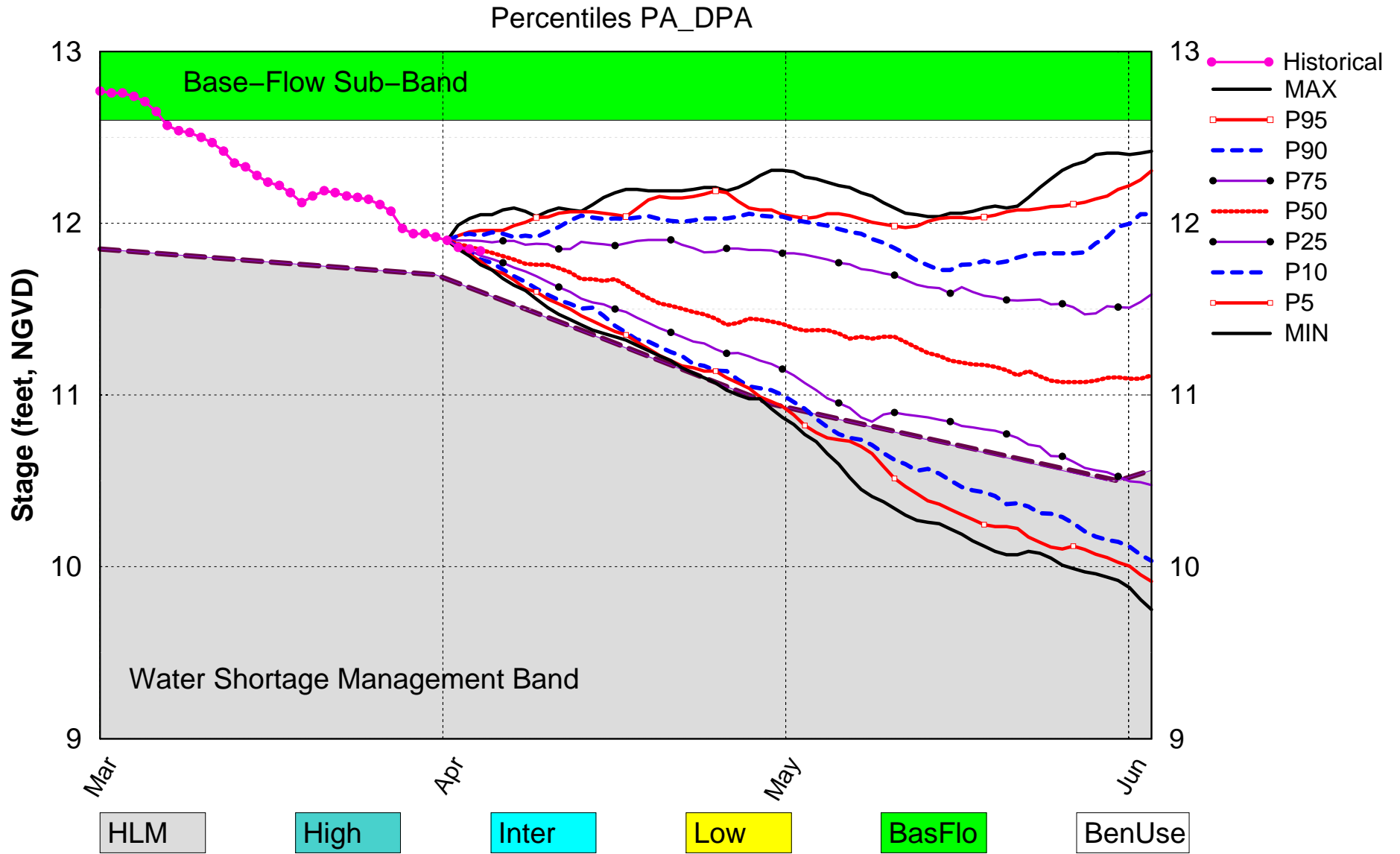
[https://origin.cpc.ncep.noaa.gov/products/analysis\\_monitoring/ensostuff/ONI\\_v5.php](https://origin.cpc.ncep.noaa.gov/products/analysis_monitoring/ensostuff/ONI_v5.php)

If the current month is within an official ENSO event (5 consecutive 3-month periods) then that year is considered an ENSO year for that month, these years are compiled ahead of the model simulations for all ENSO events within the period of record of the model simulation. Each month will have a different set of years. The strength of the ENSO event may vary among the selected years, and the DPA simulation of these years may show wide variability in modeled stages.

- 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 8.5
  2. 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](#)**

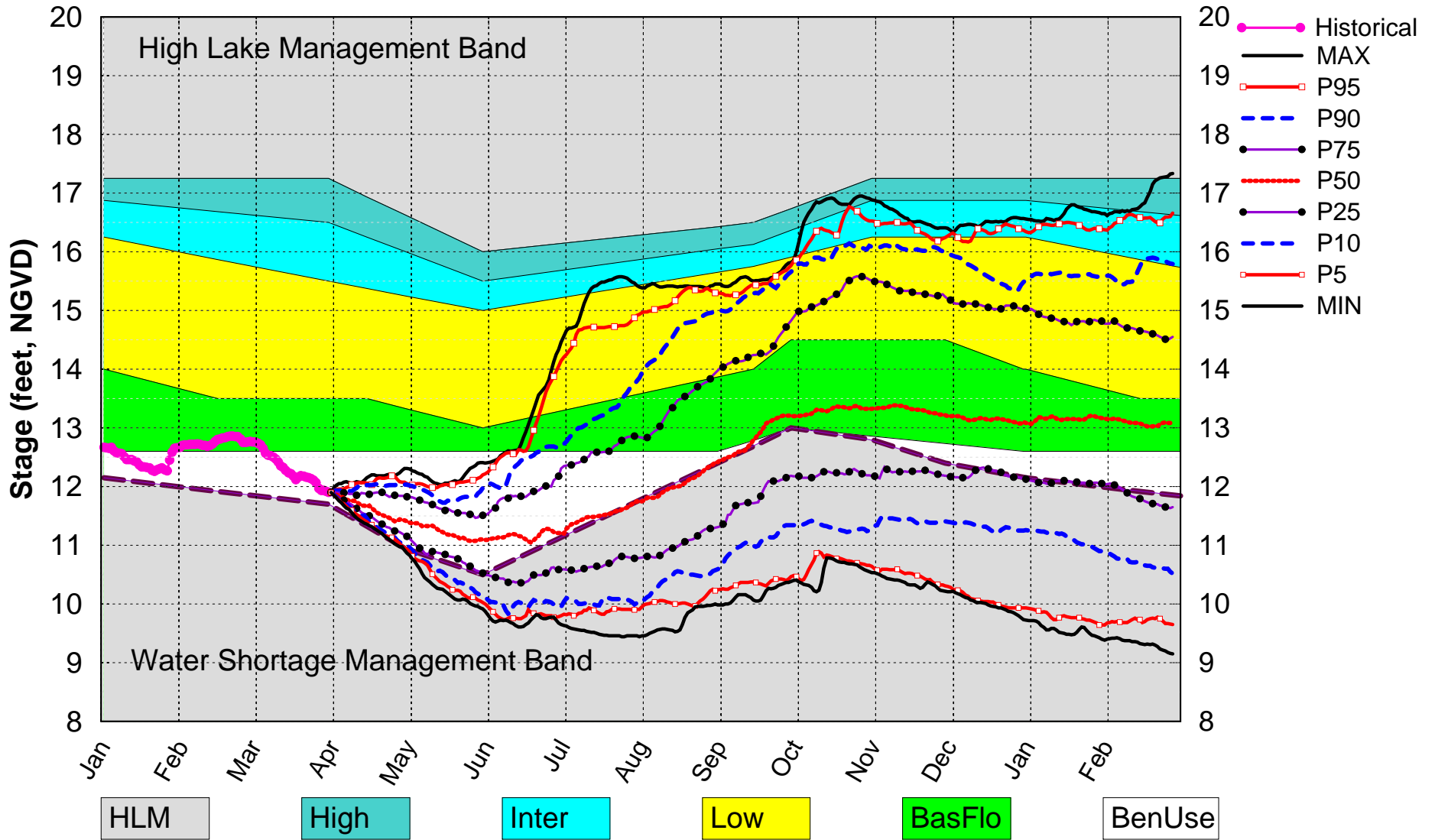
# Lake Okeechobee SFWMM Apr 2019 Position Analysis



(See assumptions on the Position Analysis Results website)

# Lake Okeechobee SFWMM Apr 2019 Position Analysis

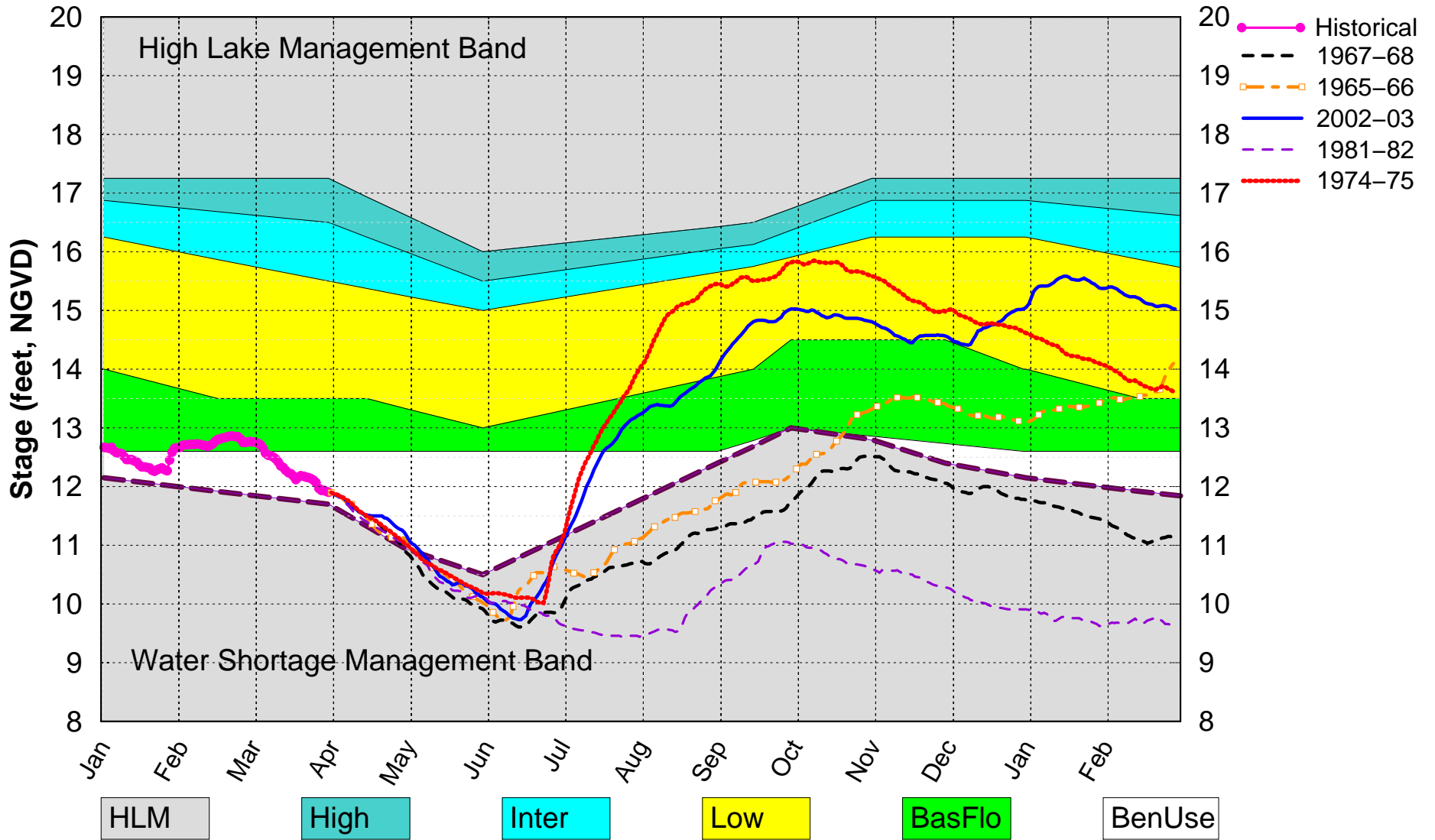
Percentiles PA\_DPA



(See assumptions on the Position Analysis Results website)

# Lake Okeechobee SFWMM Apr 2019 Position Analysis

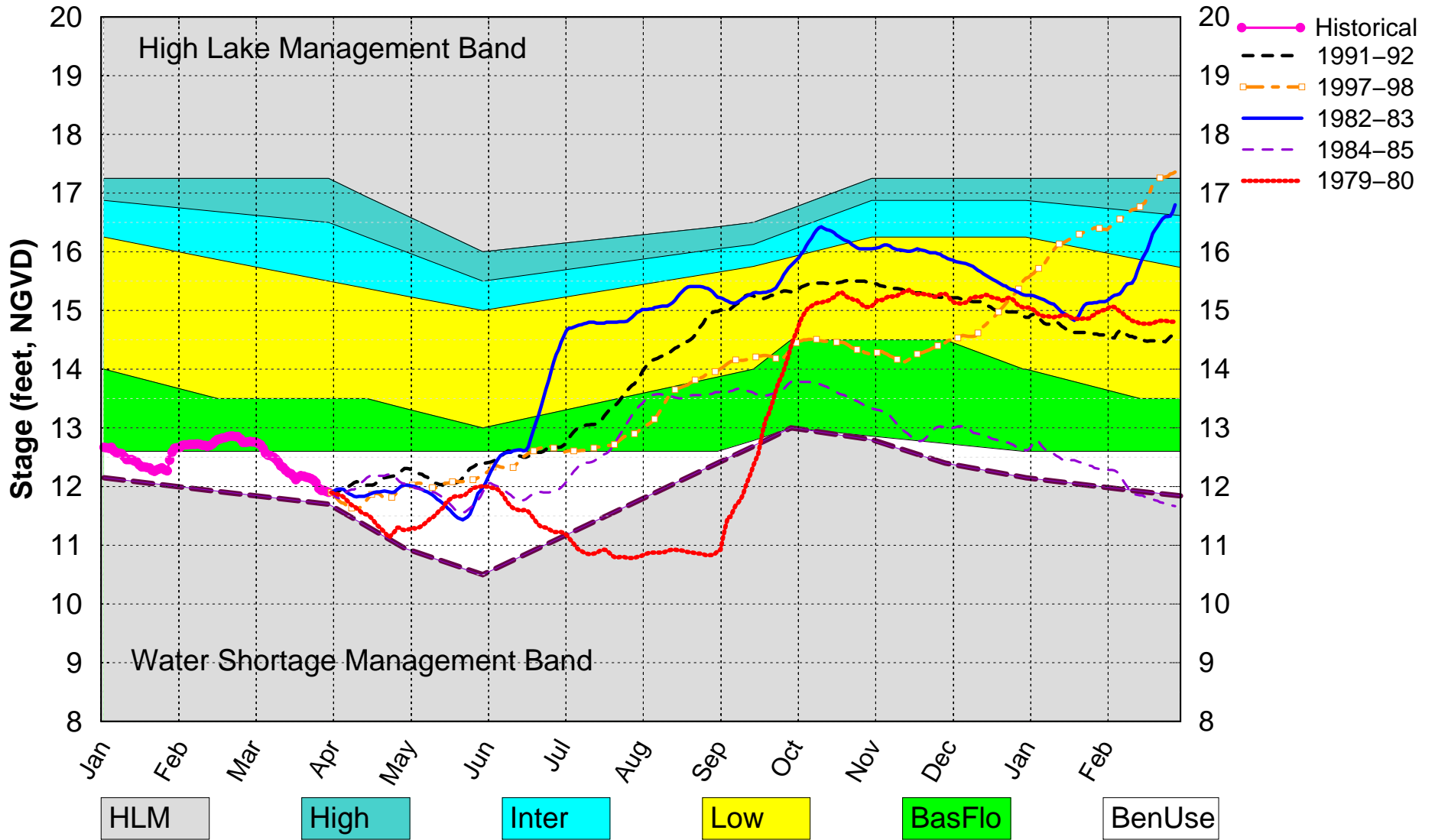
Dry Years Plot PA\_DPA



(See assumptions on the Position Analysis Results website)

# Lake Okeechobee SFWMM Apr 2019 Position Analysis

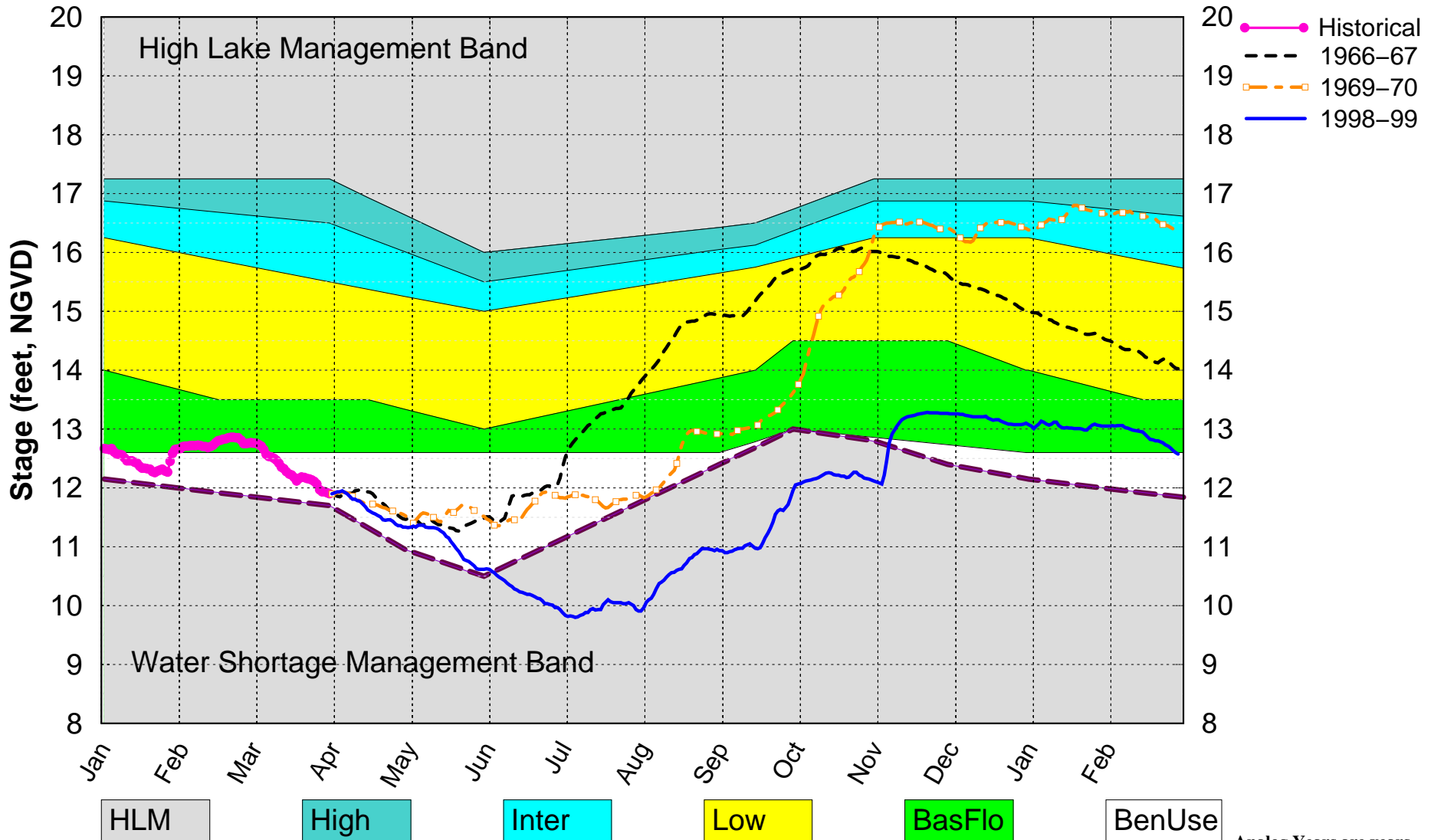
Wet Years Plot PA\_DPA



(See assumptions on the Position Analysis Results website)

# Lake Okeechobee SFWMM Apr 2019 Position Analysis

AMO Warm / El Nino Analog Years Plot PA\_DPA



HLM High Inter Low BasFlo BenUse

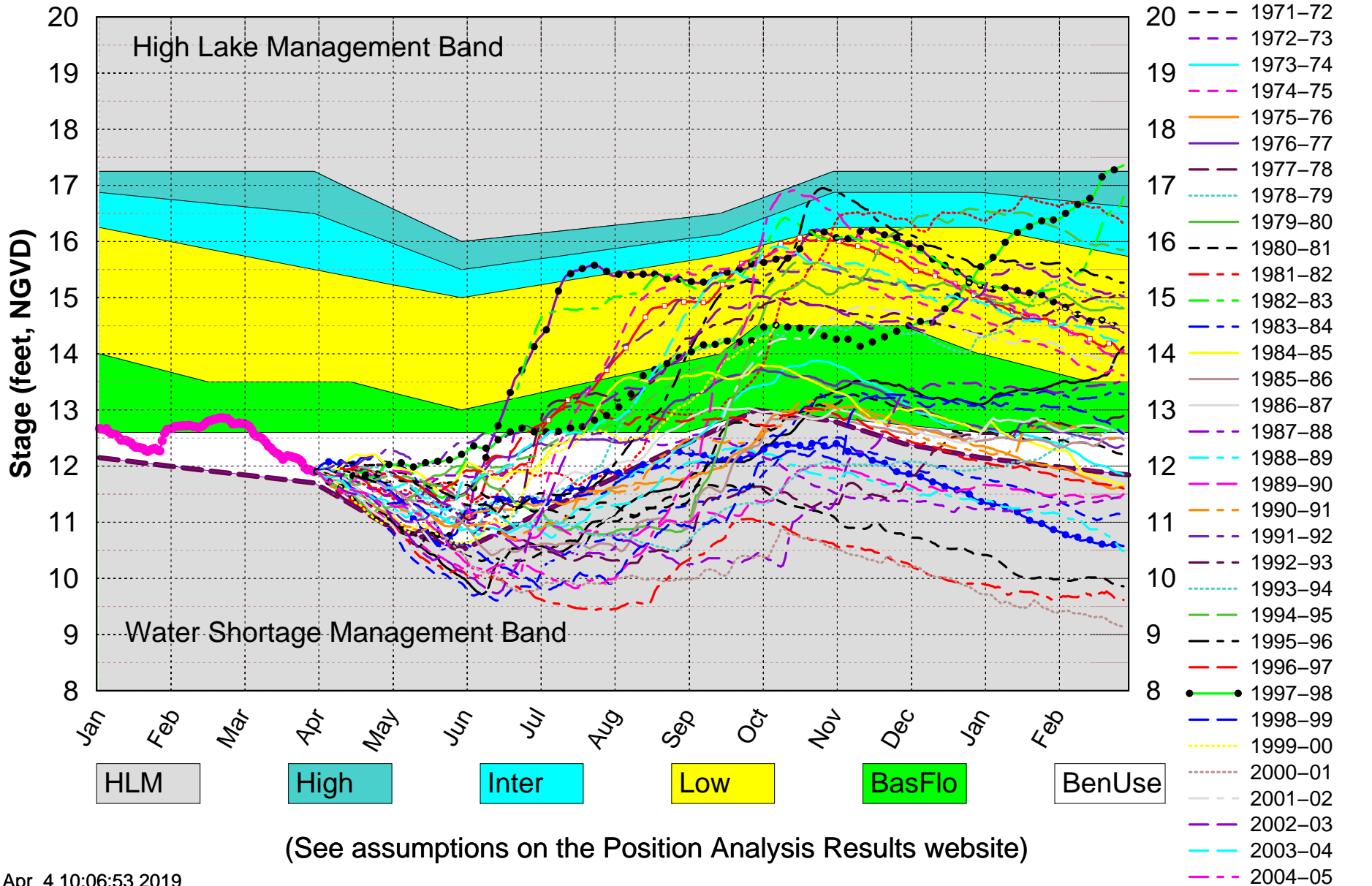
(See assumptions on the Position Analysis Results website)

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



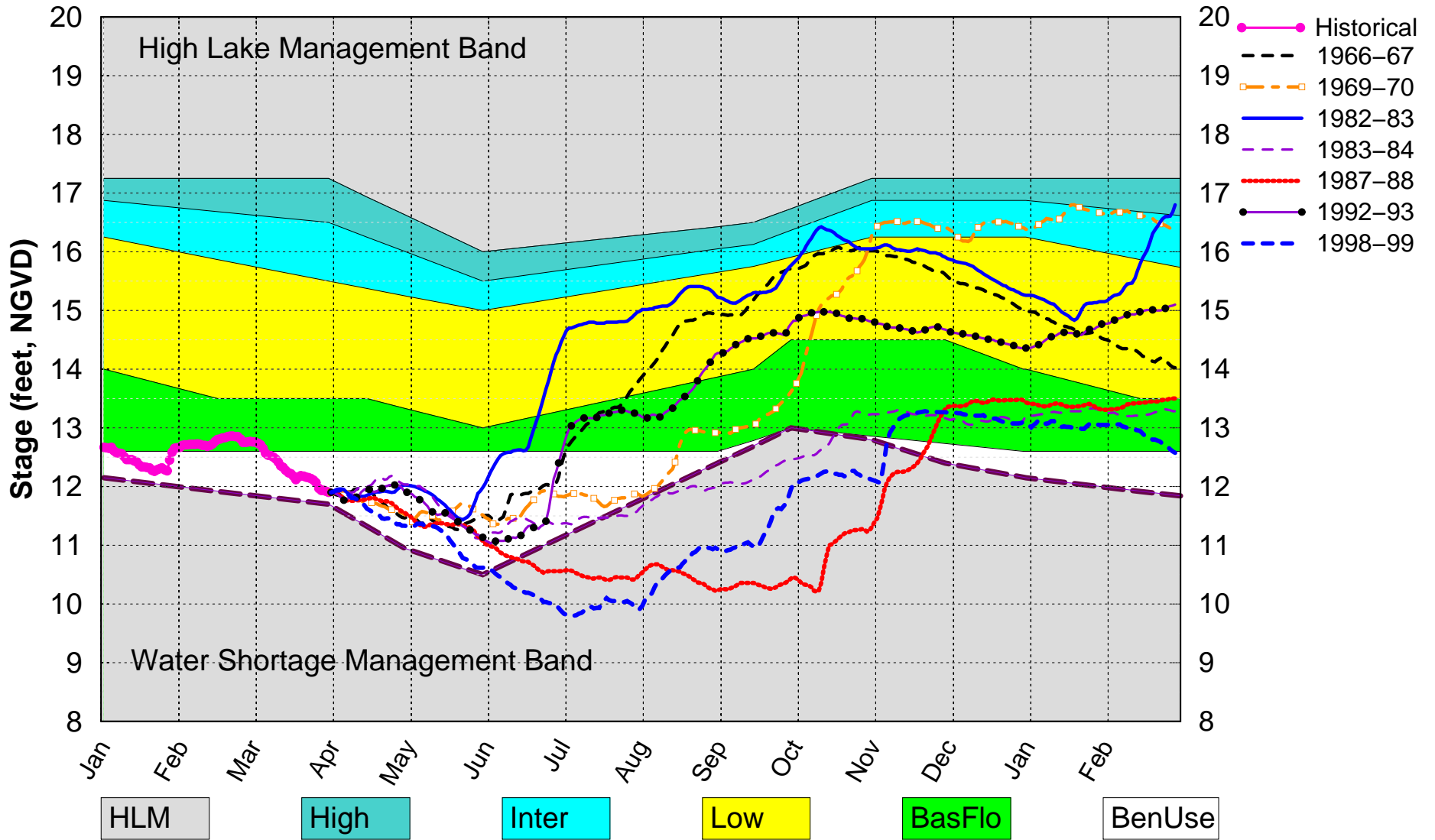
# Lake Okeechobee SFWMM Apr 2019 Position Analysis

All Simulated Years Plot PA\_DPA



# Lake Okeechobee SFWMM Apr 2019 Position Analysis

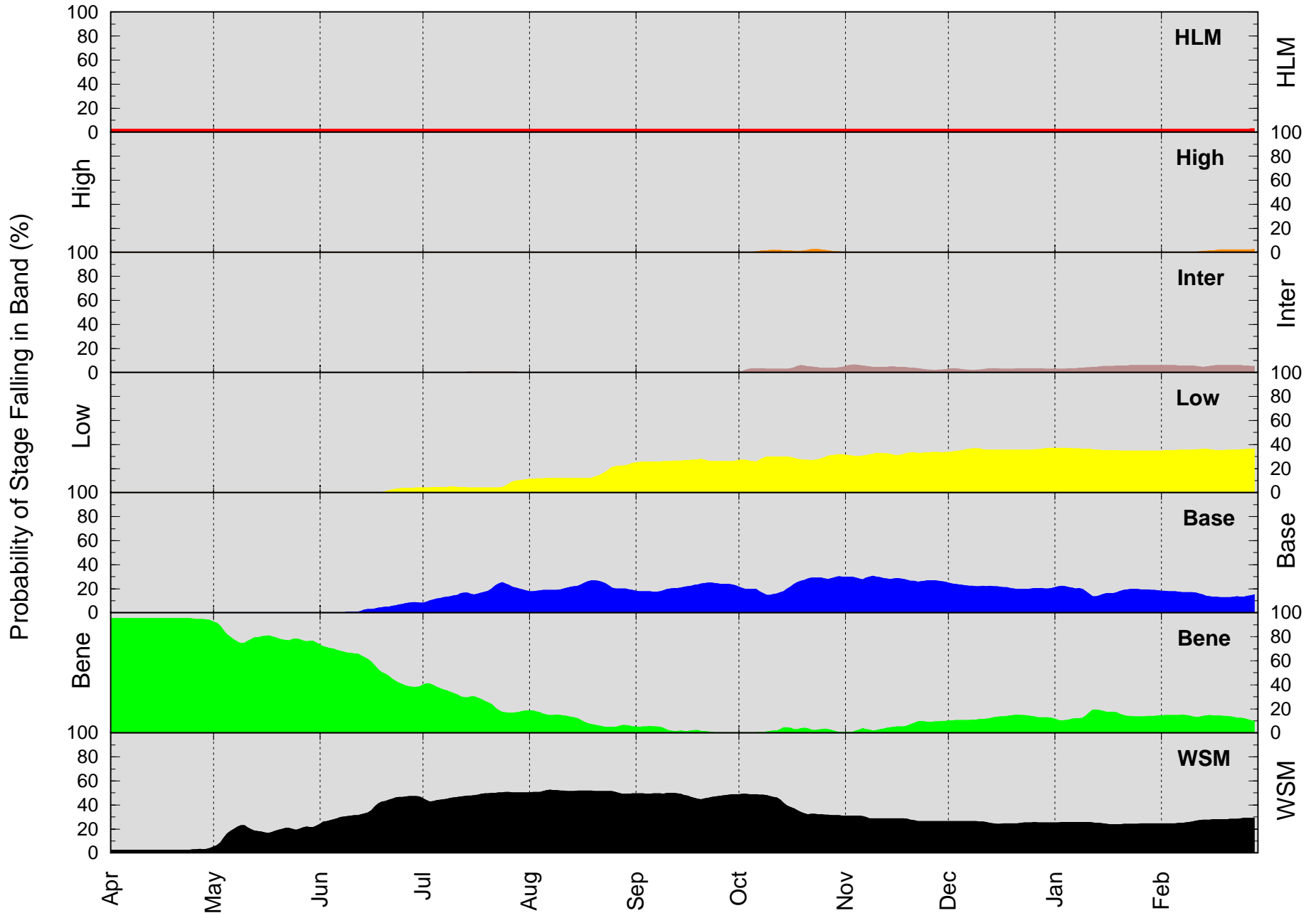
All El Nino Years Plot PA\_DPA



(See assumptions on the Position Analysis Results website)

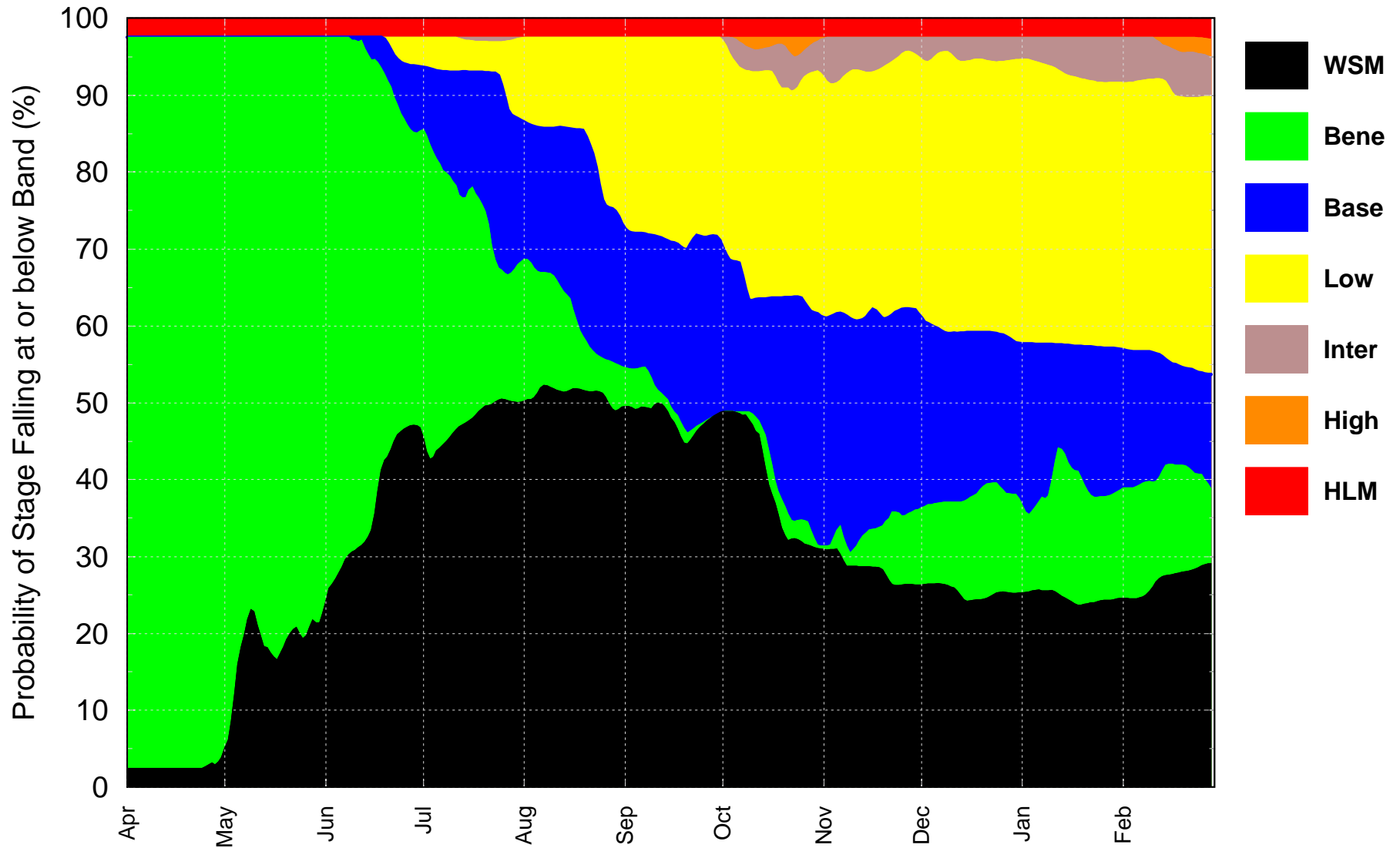
# Lake Okeechobee – Band Probabilities

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



# Lake Okeechobee – Probabilities for Operational Bands

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



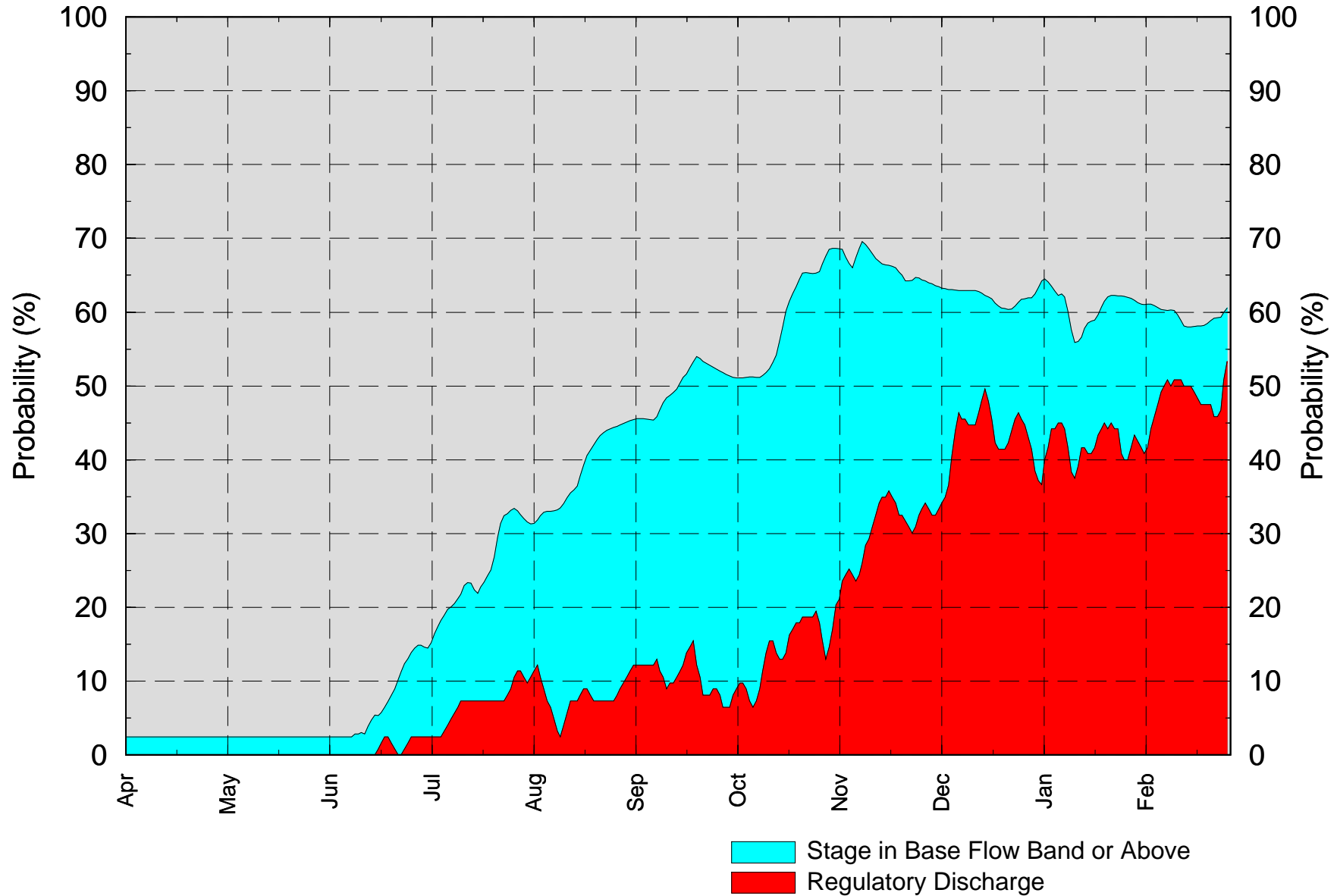
The width for each band gives the probability of stage falling in that band, as defined by the operational schedules.

Lake Okechobee Band Probabilities (%) at the Beginning of Each Month  
'(See assumptions on the Position Analysis Results website)'  
Initial Stage 12.48 ft. for 03/01/2019

Date	HLM	High	Inter	Low	Base	Bene	WSM
2019 03 01	2.4	0.0	0.0	0.0	0.0	95.1	2.4
2019 04 01	2.4	0.0	0.0	0.0	0.0	95.1	2.4
2019 05 01	2.4	0.0	0.0	0.0	0.0	92.4	5.1
2019 06 01	2.4	0.0	0.0	0.0	0.0	73.3	24.2
2019 07 01	2.4	0.0	0.0	3.9	8.1	40.1	45.4
2019 08 01	2.4	0.0	-0.0	11.1	17.8	18.4	50.3
2019 09 01	2.4	0.0	-0.0	25.0	18.0	5.1	49.5
2019 10 01	2.4	0.0	0.4	27.0	21.3	-0.0	48.9
2019 11 01	2.4	0.1	5.0	31.4	29.7	0.4	30.9
2019 12 01	2.4	-0.0	2.8	33.7	24.7	10.0	26.3
2020 01 01	2.4	-0.0	2.9	37.0	21.0	11.4	25.3
2020 02 01	2.4	-0.0	5.9	34.8	18.0	14.3	24.6

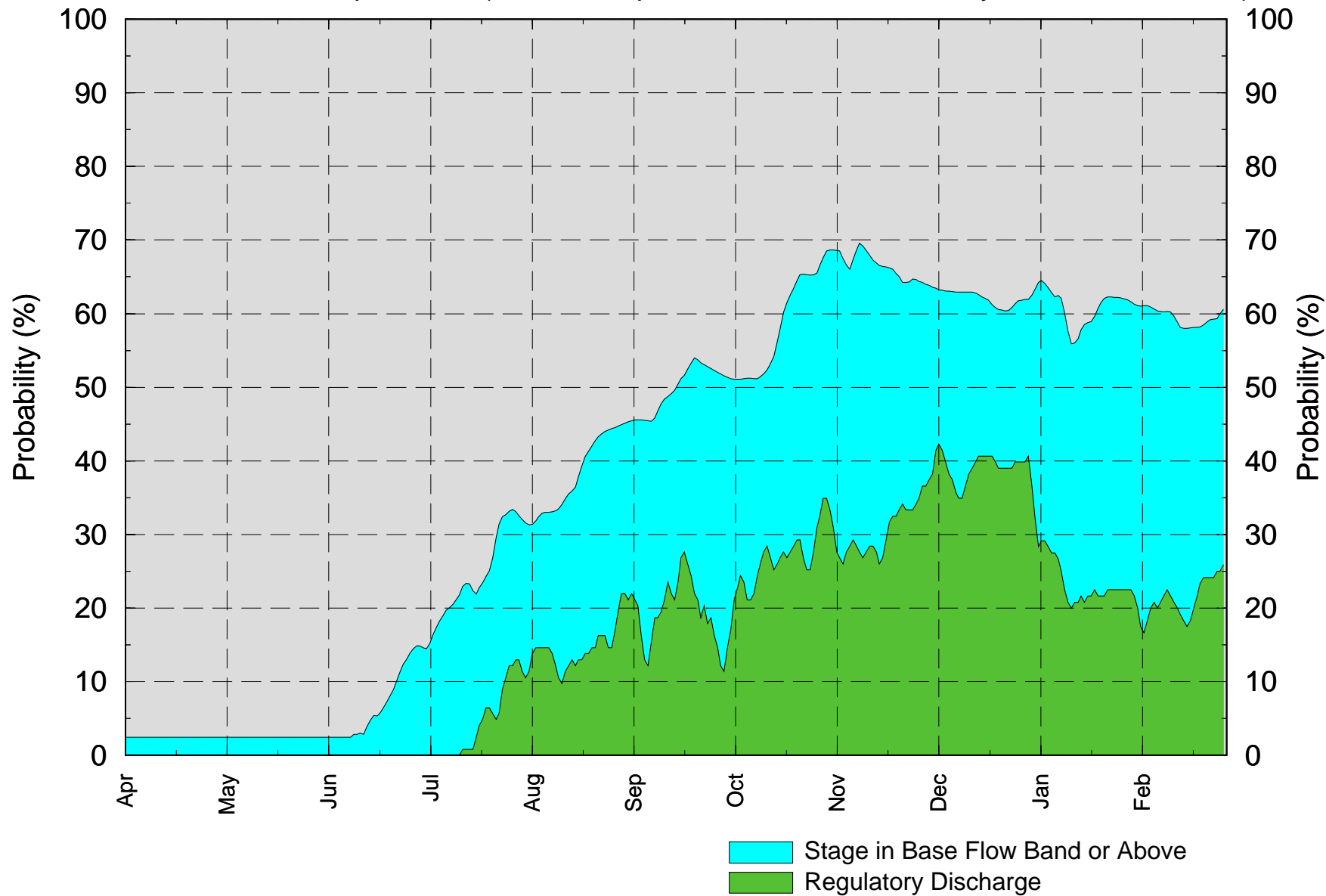
# Lake Okeechobee – LORS2008 Releases to the Estuaries

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



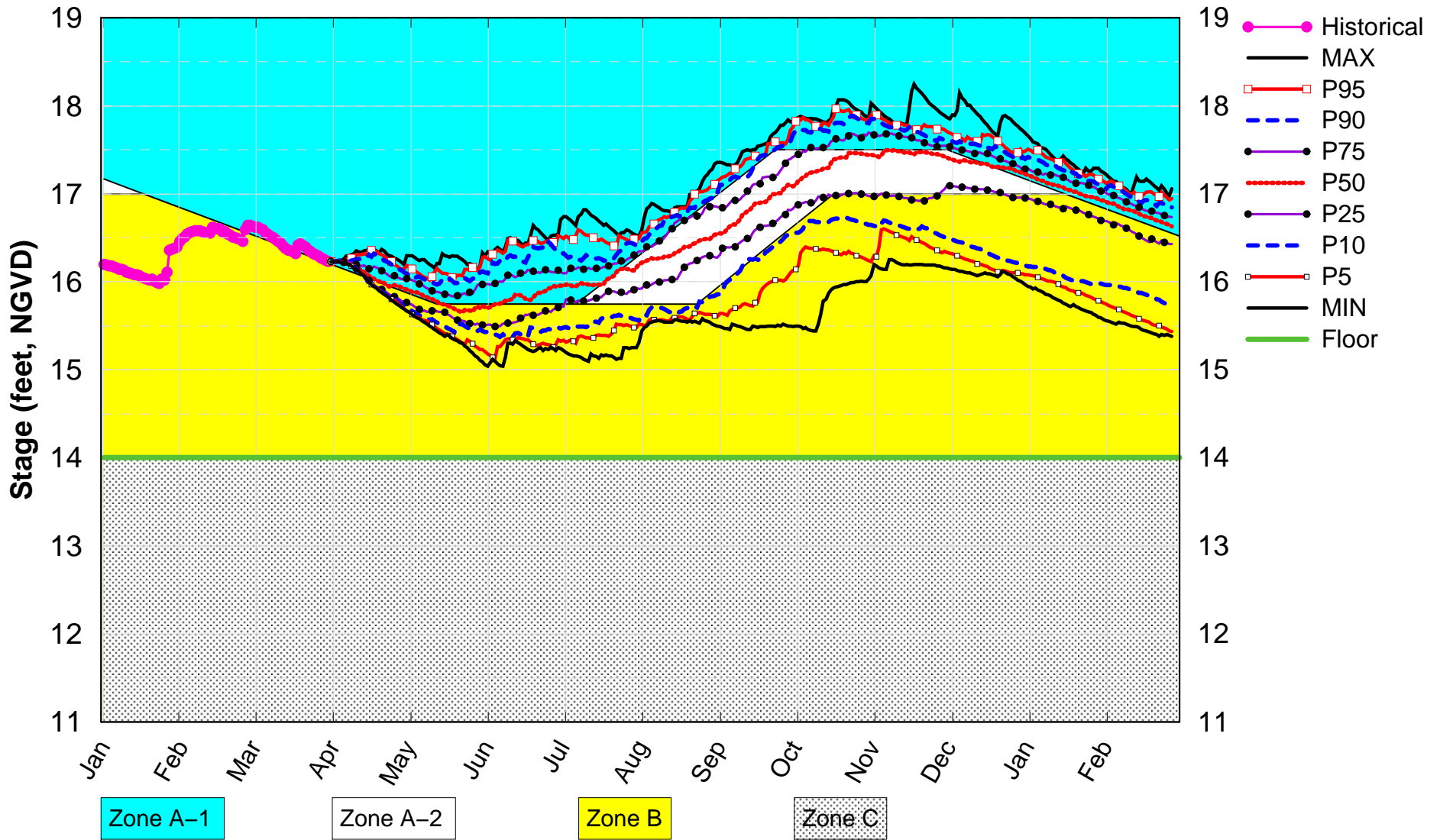
# Lake Okeechobee – LORS2008 Releases to the WCA's

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



# WCA1 SFWMM Apr 2019 Position Analysis

Percentiles PA\_DPA

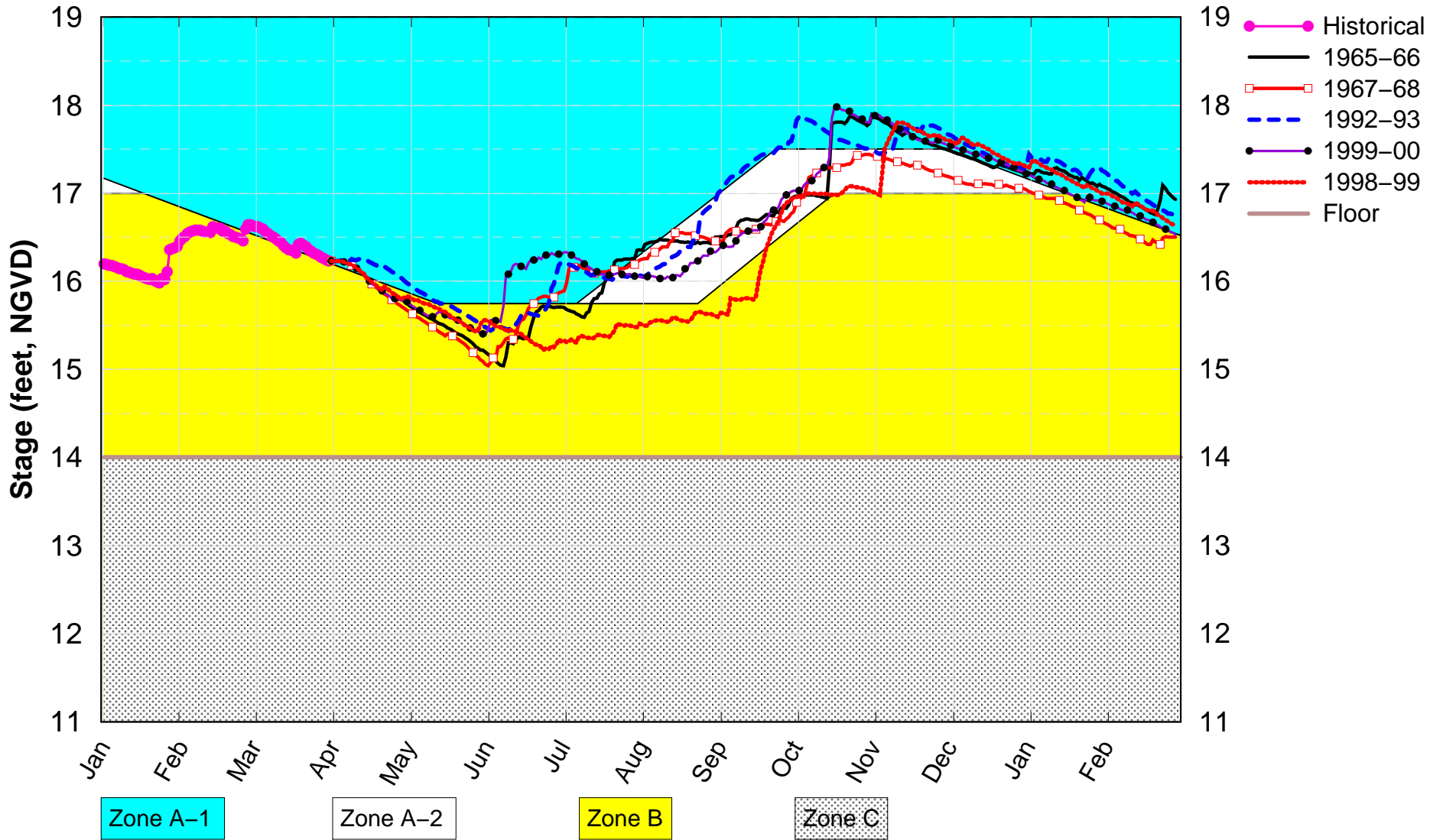


(See assumptions on the Position Analysis Results website)



# WCA1 SFWMM Apr 2019 Position Analysis

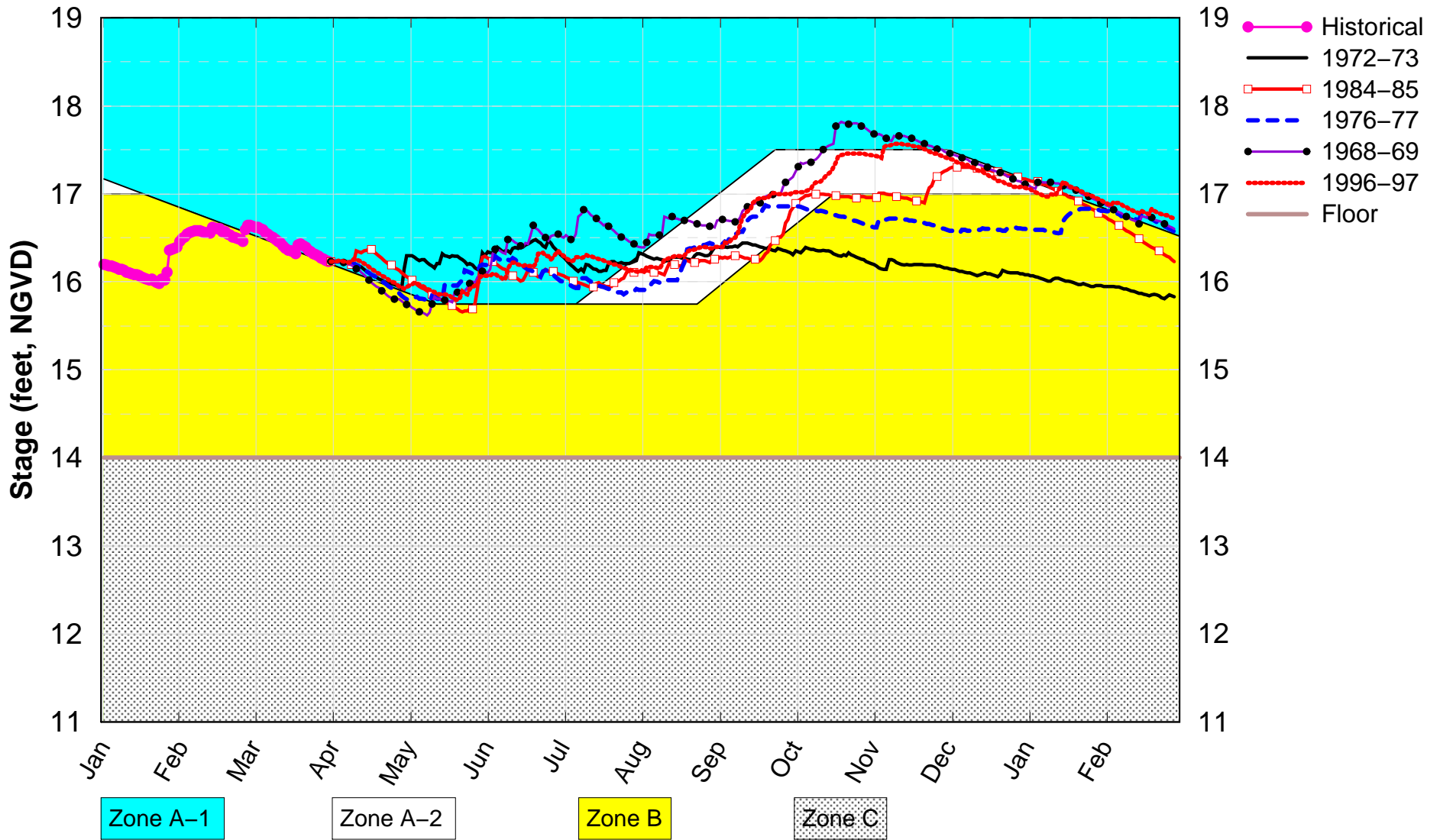
Dry Years Plot PA\_DPA



(See assumptions on the Position Analysis Results website)

# WCA1 SFWMM Apr 2019 Position Analysis

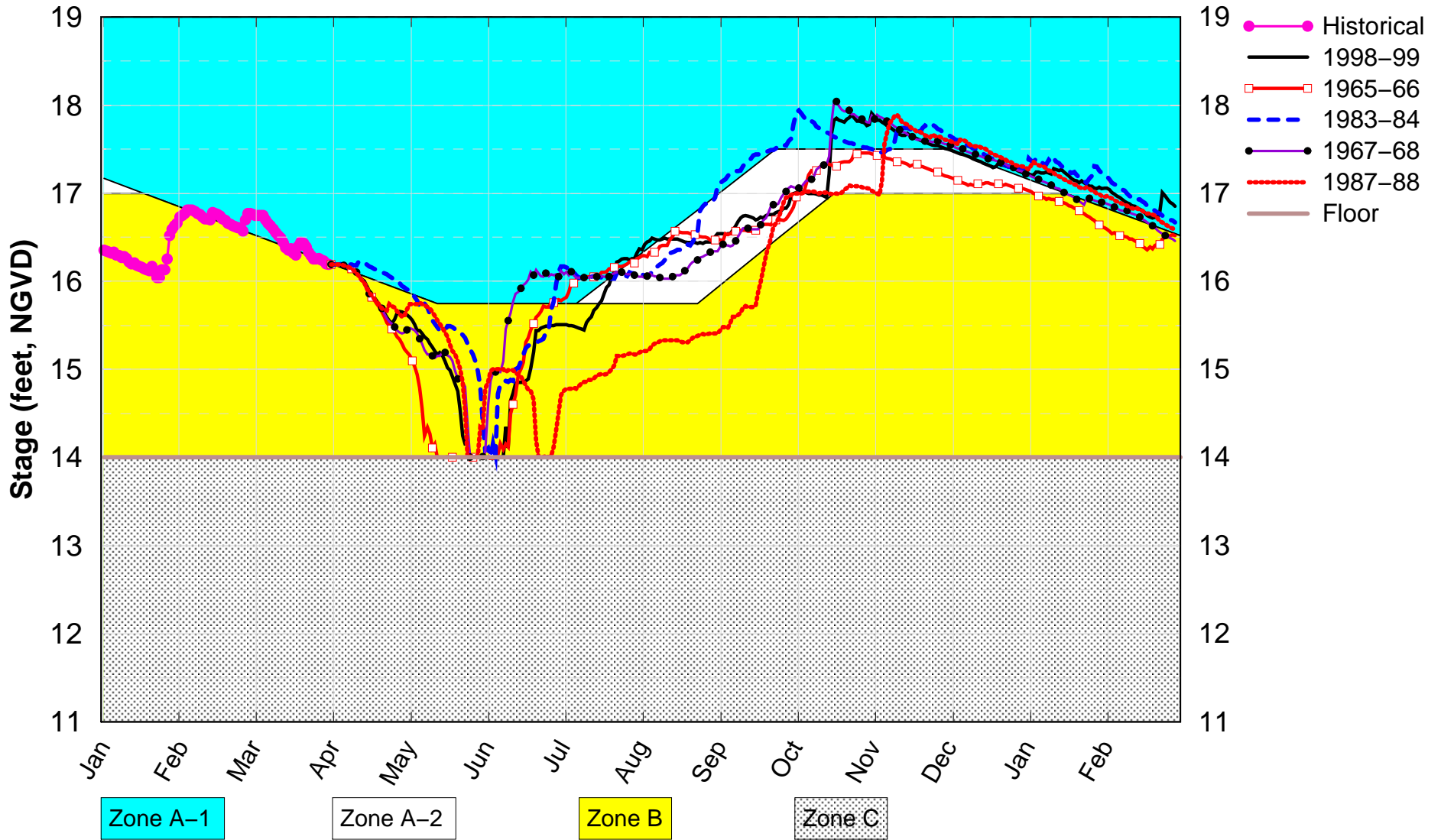
Wet Years Plot PA\_DPA



(See assumptions on the Position Analysis Results website)

# CA1 Canal SFWMM Apr 2019 Position Analysis

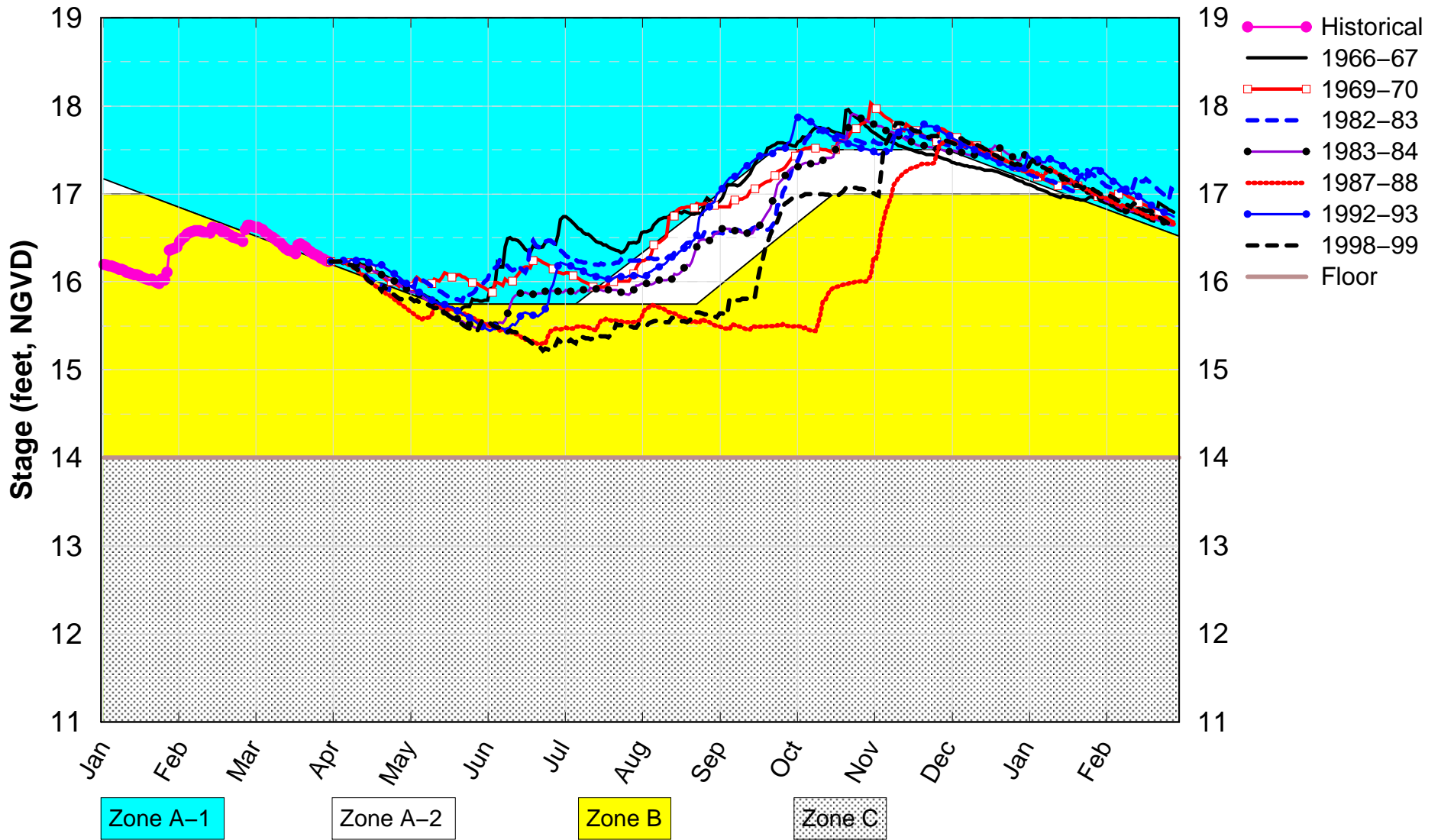
PA\_DPA Dry Years Plot



(See assumptions on the Position Analysis Results website)

# WCA1 SFWMM Apr 2019 Position Analysis

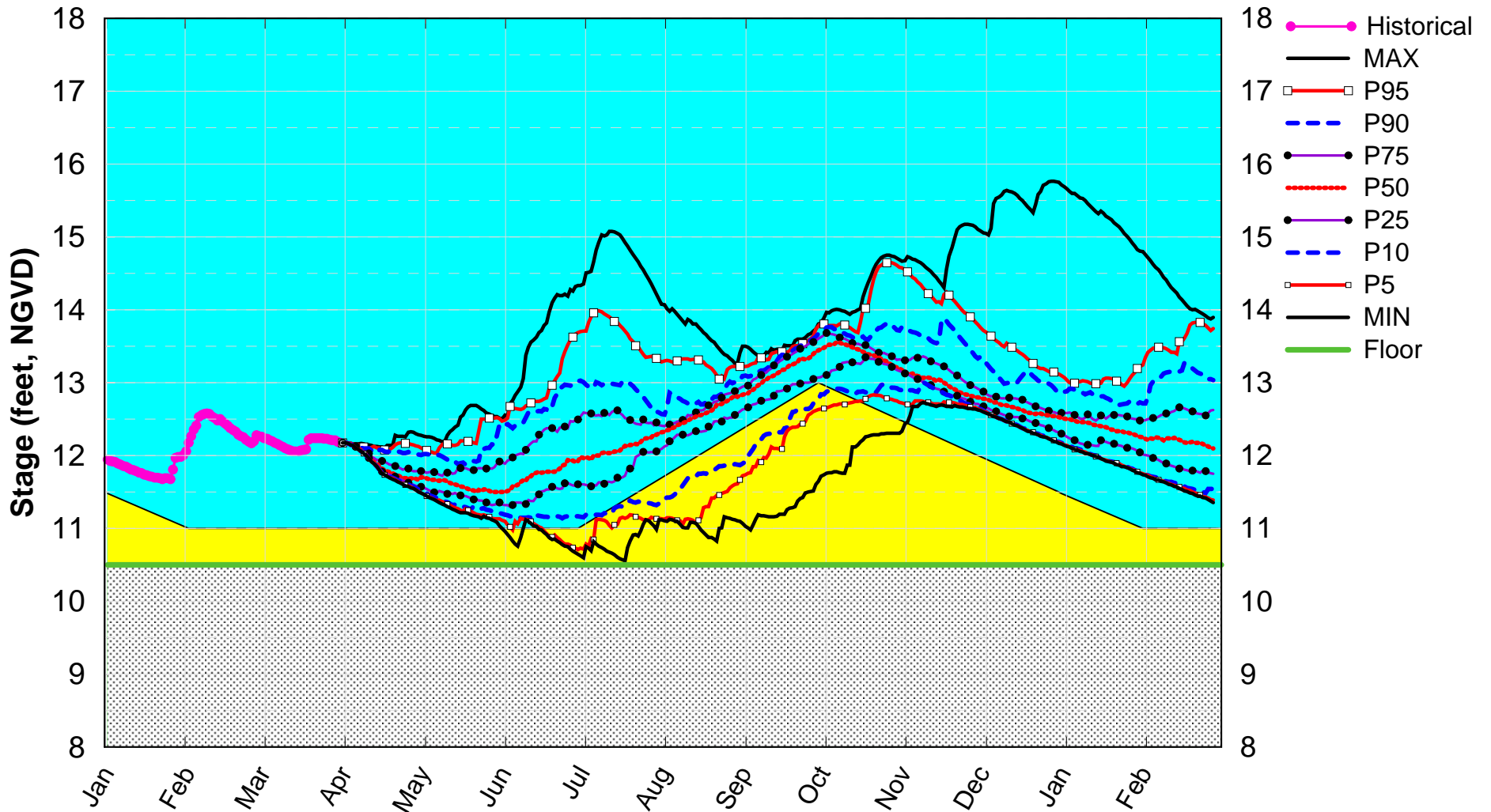
All El Nino Years Plot PA\_DPA



(See assumptions on the Position Analysis Results website)

# WCA2A SFWMM Apr 2019 Position Analysis

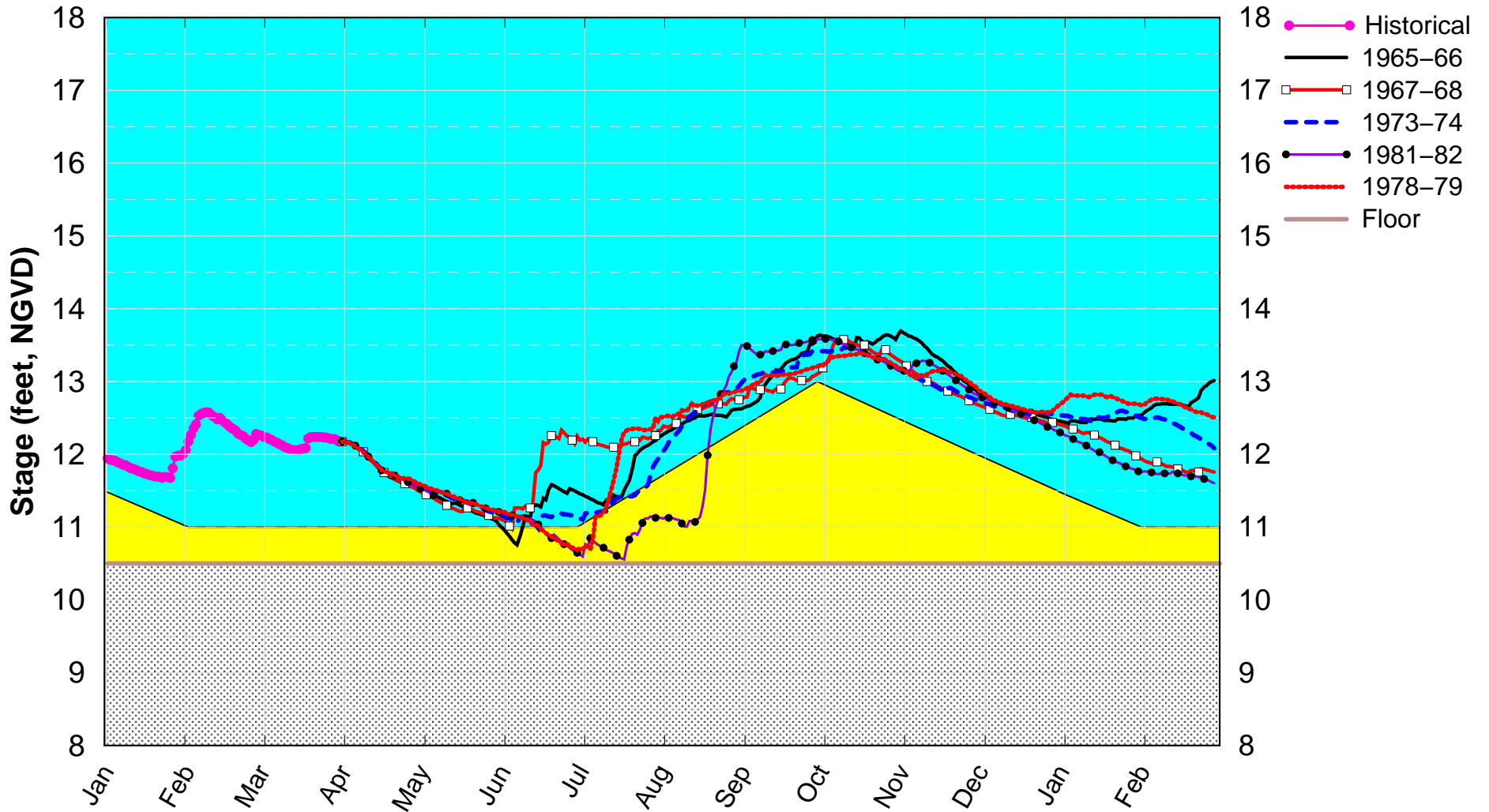
Percentiles PA\_DPA



(See assumptions on the Position Analysis Results website)

# WCA2A SFWMM Apr 2019 Position Analysis

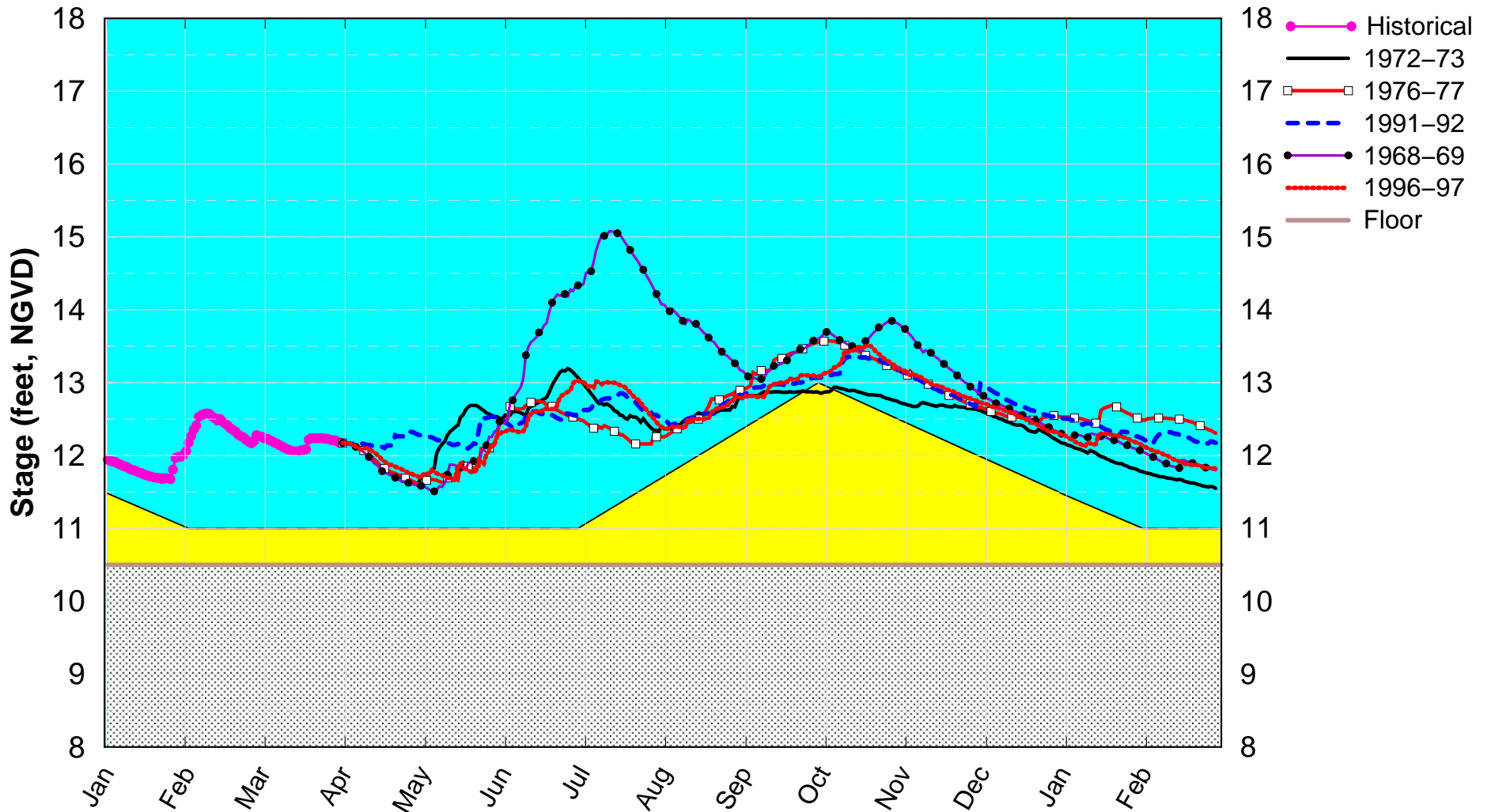
Dry Years Plot PA\_DPA



(See assumptions on the Position Analysis Results website)

# WCA2A SFWMM Apr 2019 Position Analysis

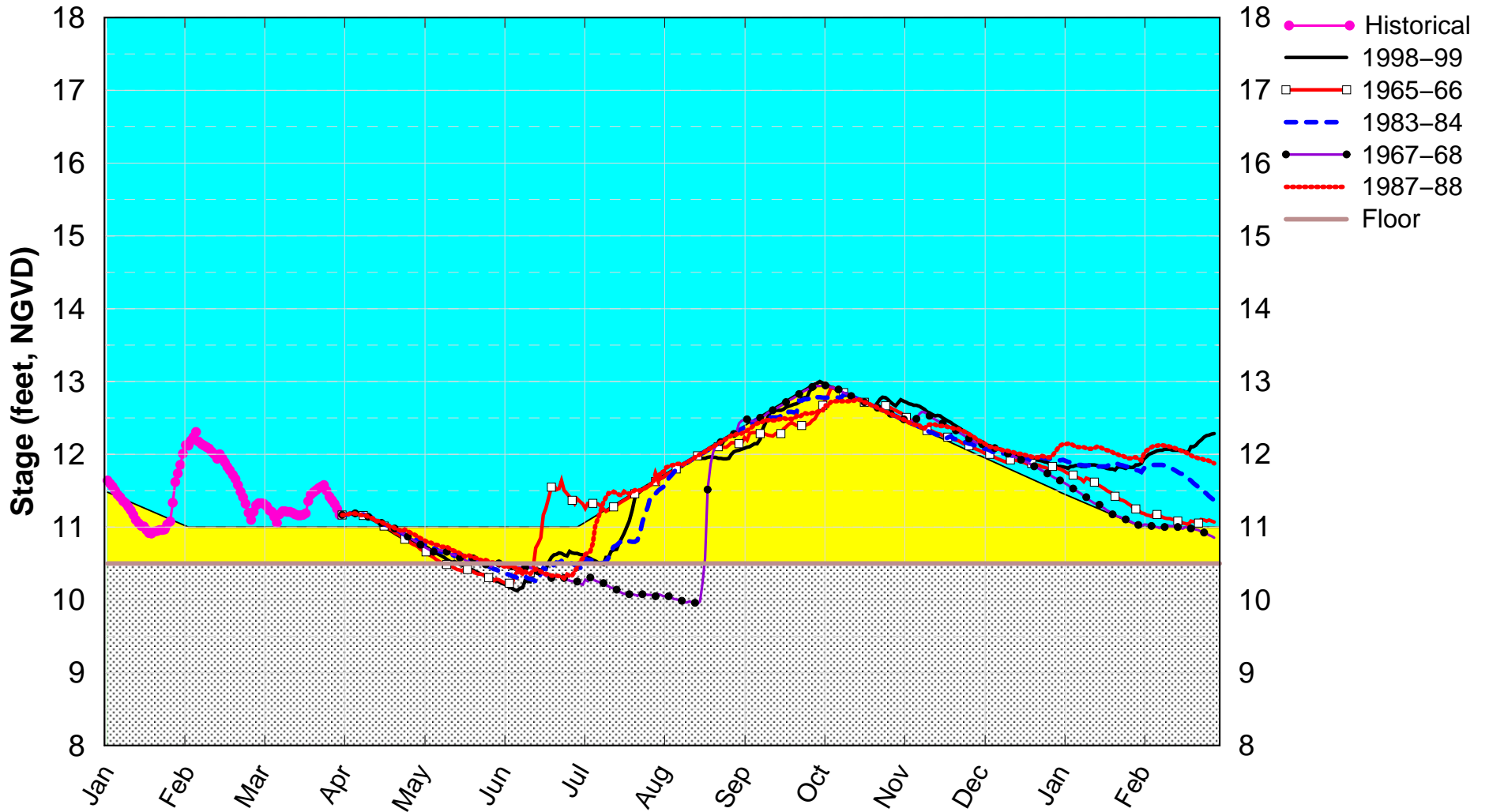
Wet Years Plot PA\_DPA



(See assumptions on the Position Analysis Results website)

# L38 Canal SFWMM Apr 2019 Position Analysis

PA\_DPA Dry Years Plot

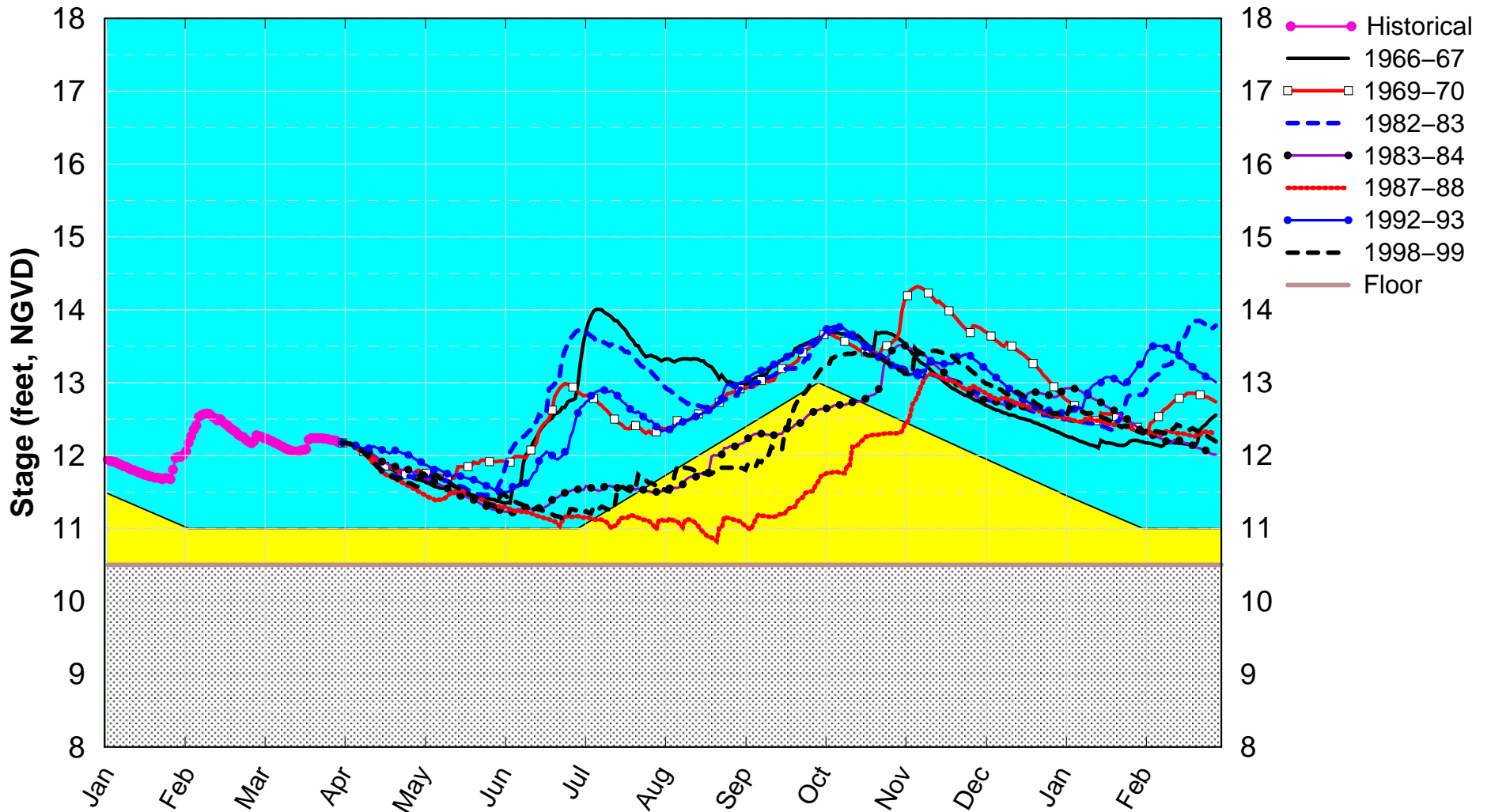


(See assumptions on the Position Analysis Results website)



# WCA2A SFWMM Apr 2019 Position Analysis

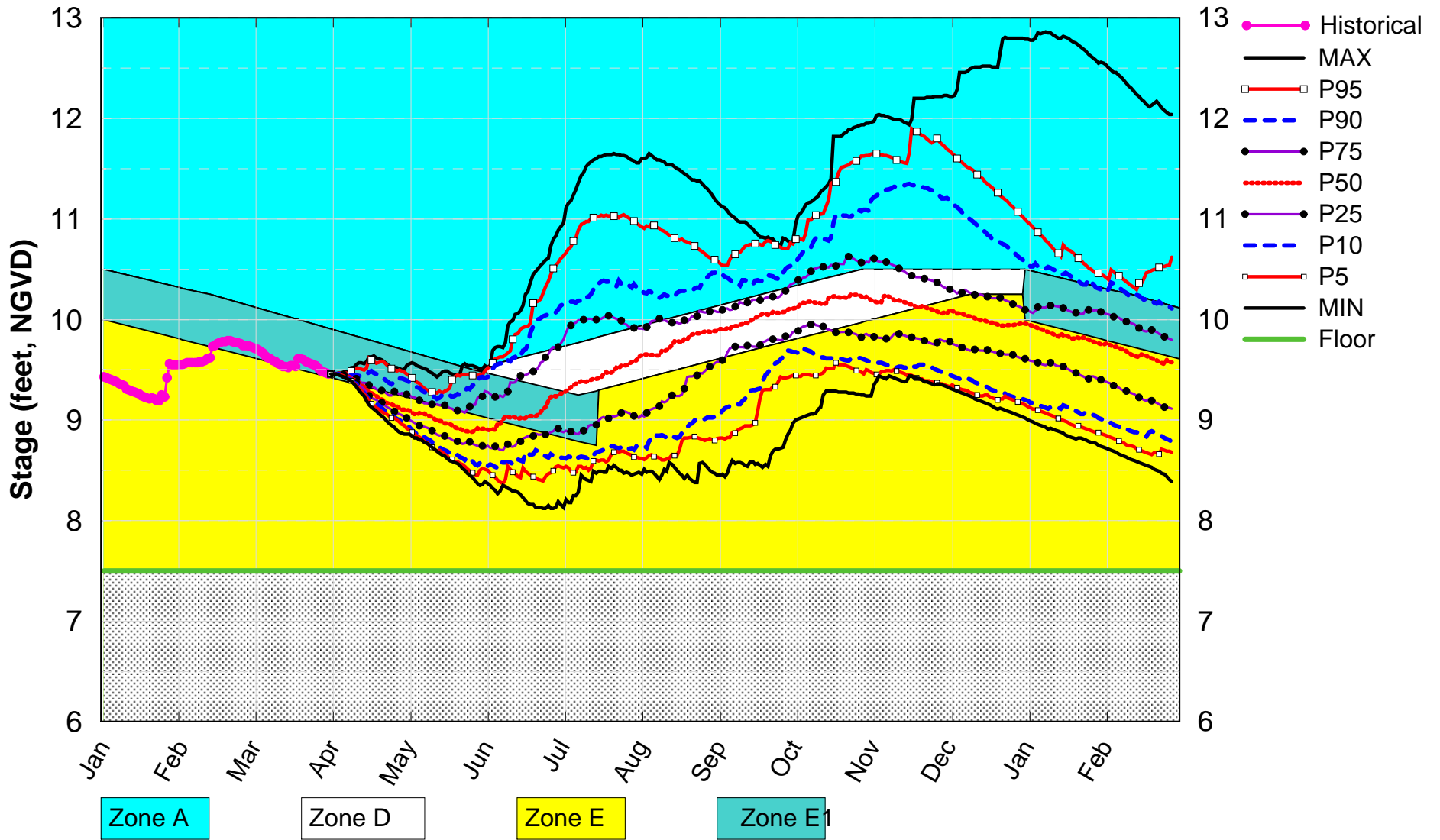
All El Nino Years Plot PA\_DPA



(See assumptions on the Position Analysis Results website)

# WCA3A SFWMM Apr 2019 Position Analysis

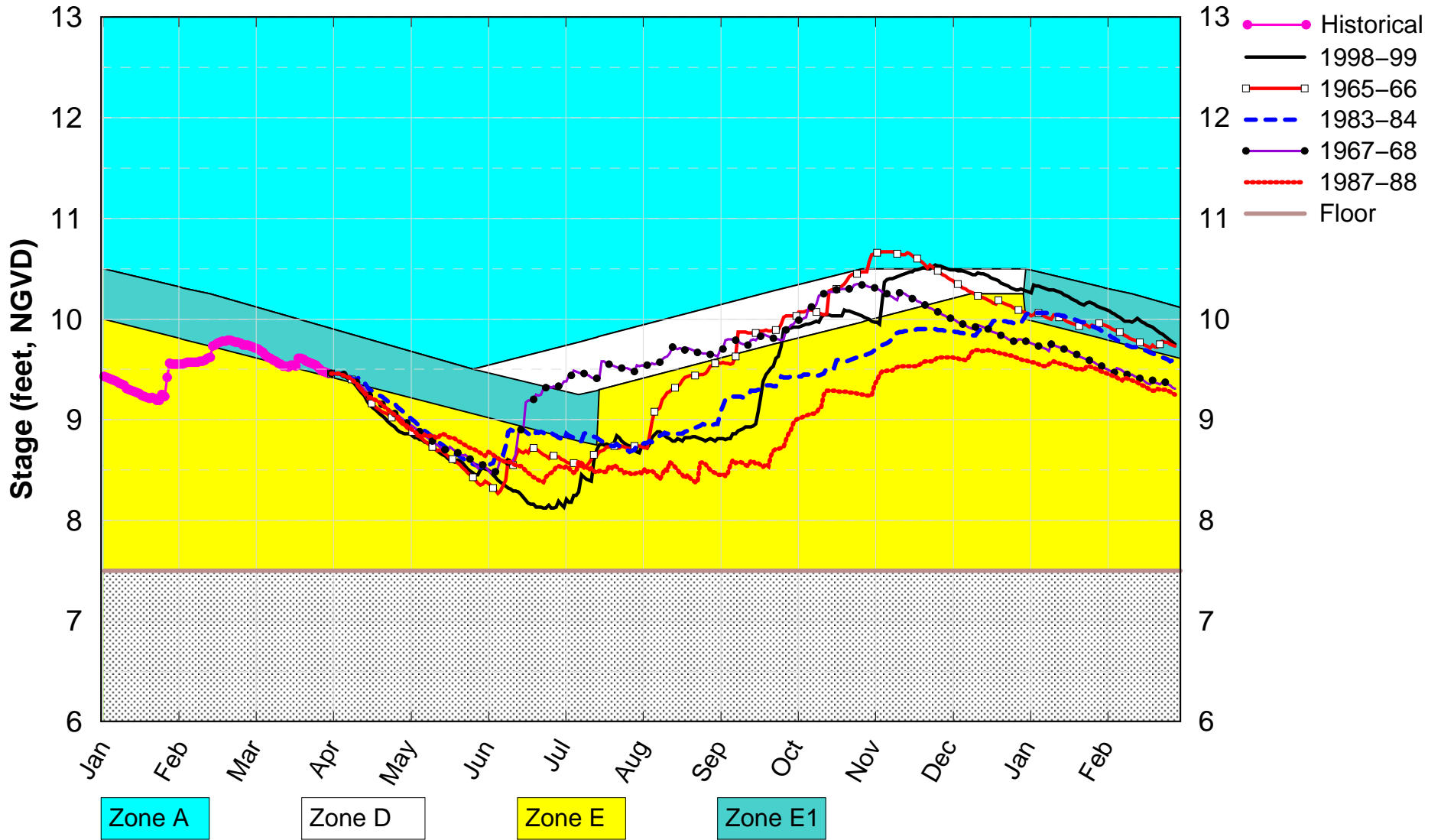
Percentiles PA\_DPA



(See assumptions on the Position Analysis Results website)

# WCA3A SFWMM Apr 2019 Position Analysis

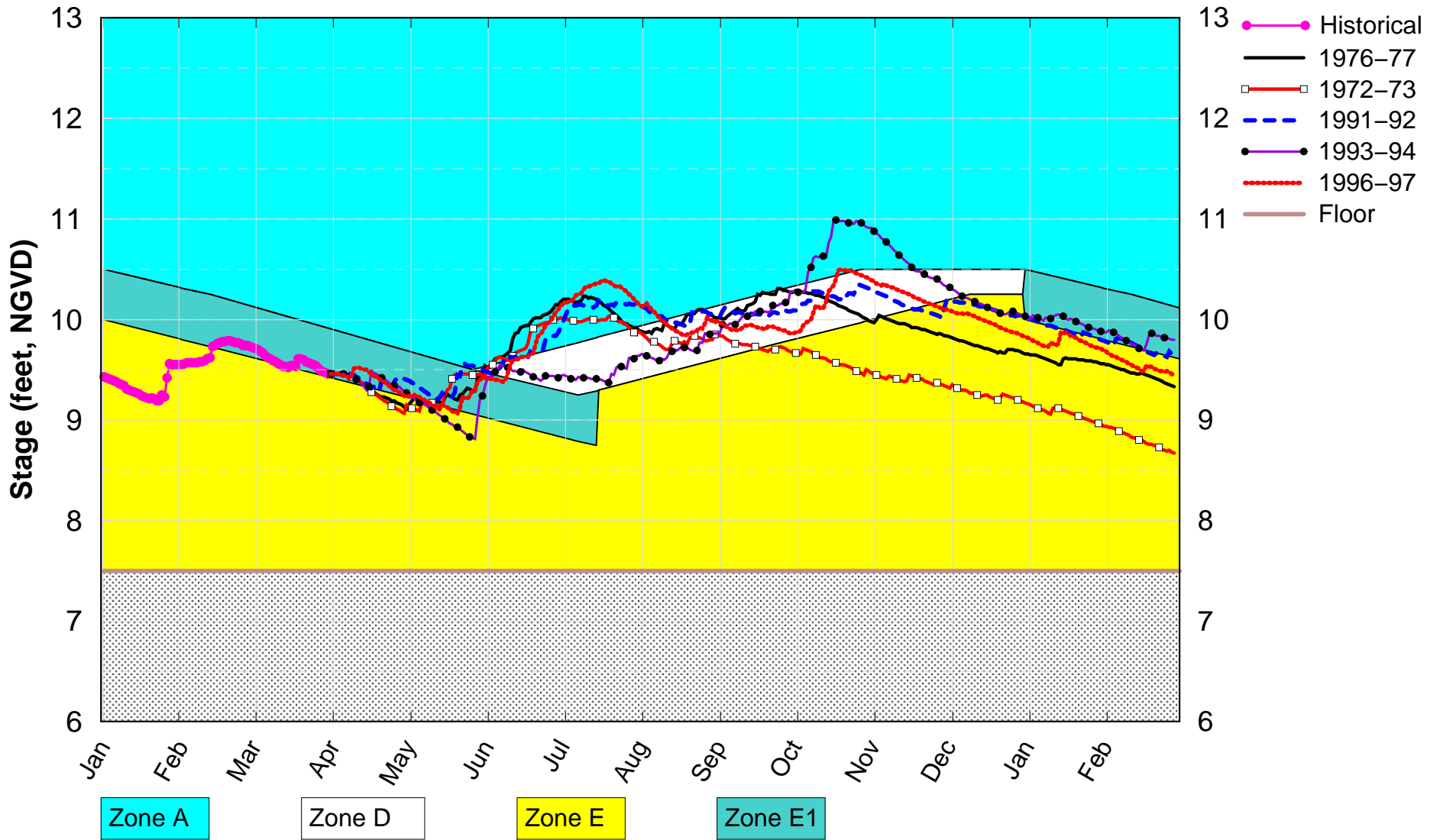
Dry Years Plot PA\_DPA



(See assumptions on the Position Analysis Results website)

# WCA3A SFWMM Apr 2019 Position Analysis

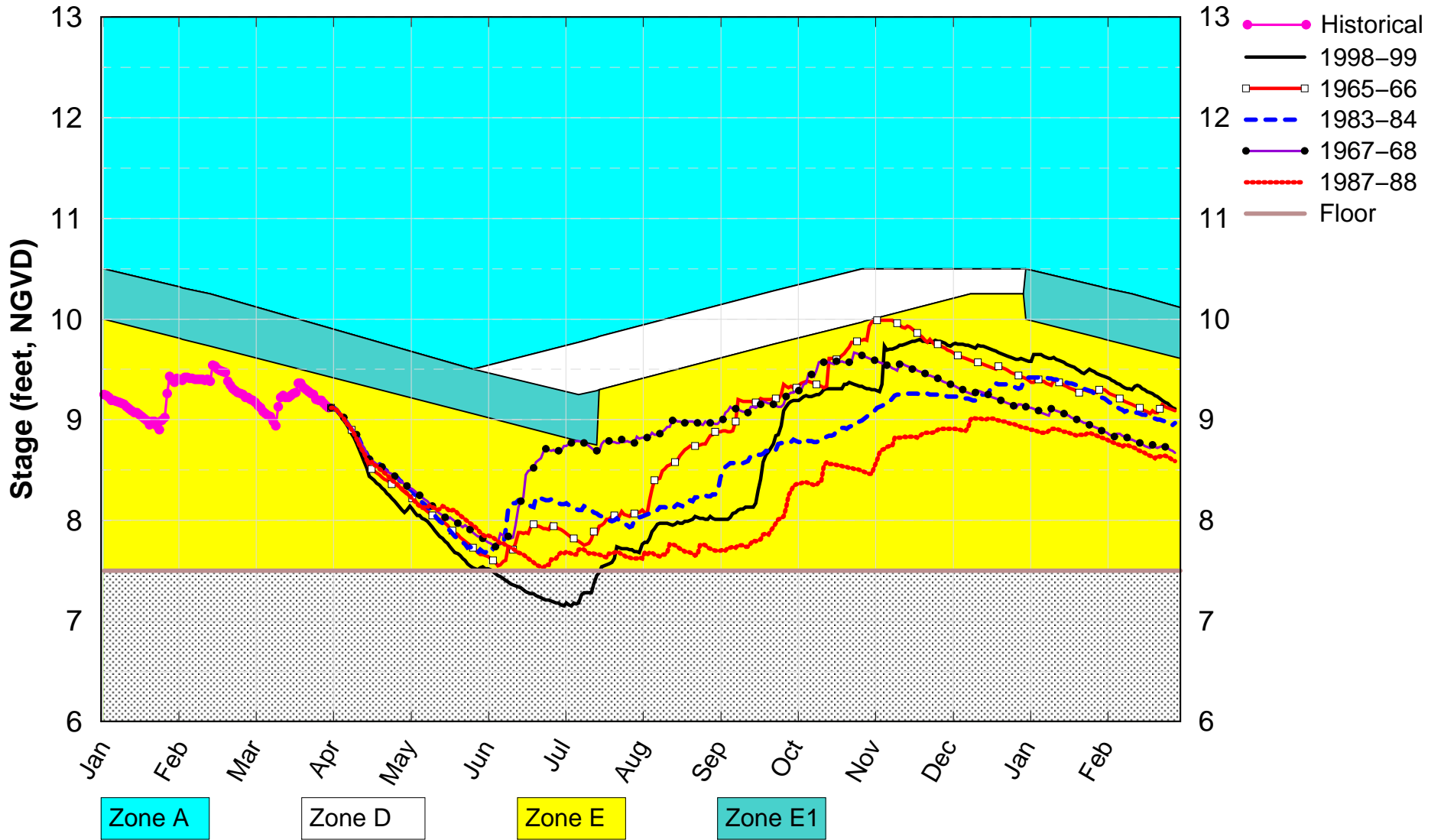
Wet Years Plot PA\_DPA



(See assumptions on the Position Analysis Results website)

# CA3 Canal SFWMM Apr 2019 Position Analysis

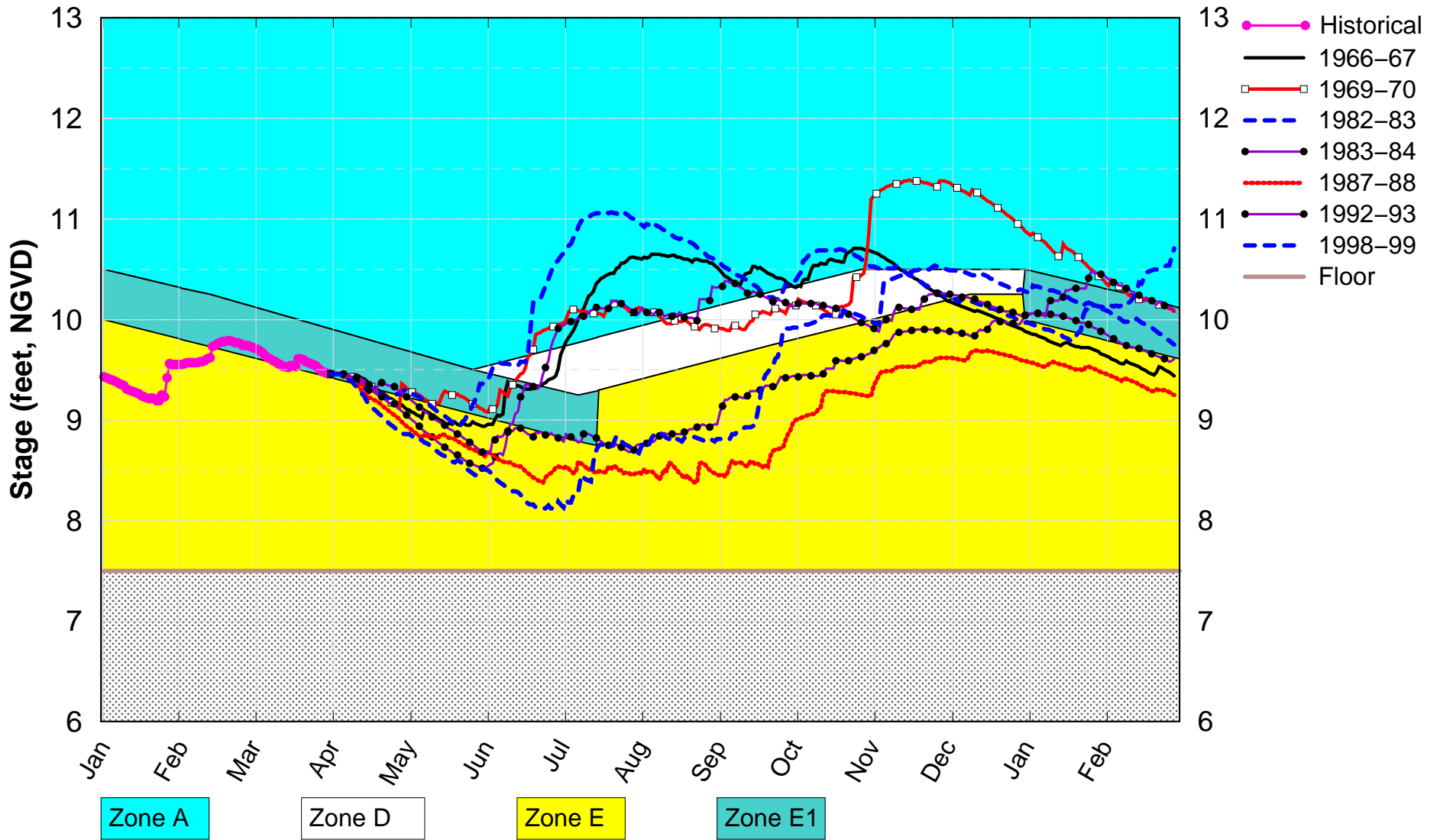
PA\_DPA Dry Years Plot



(See assumptions on the Position Analysis Results website)

# WCA3A SFWMM Apr 2019 Position Analysis

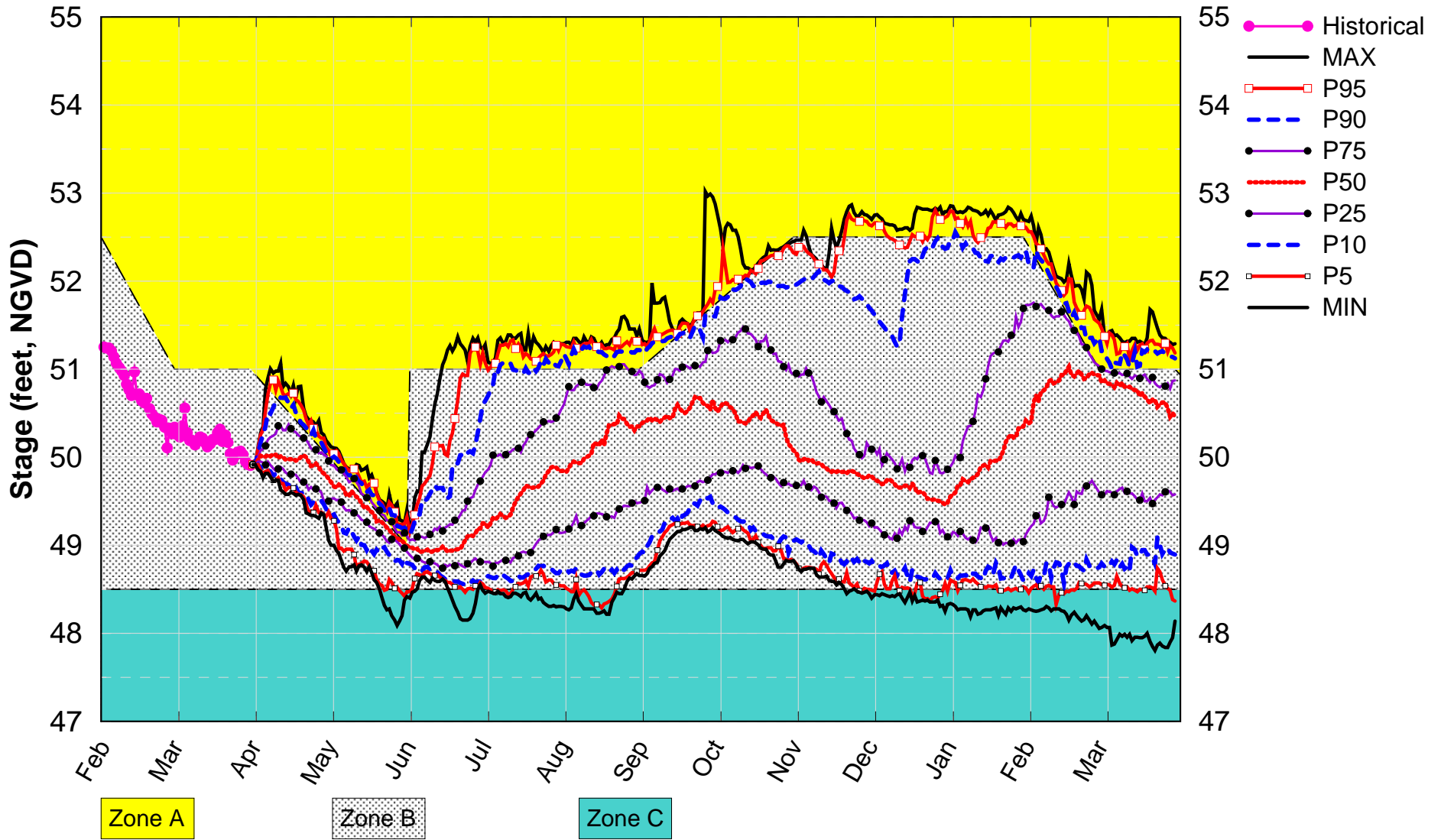
All El Nino Years Plot PA\_DPA



(See assumptions on the Position Analysis Results website)

# S65 UK-OPS Apr 1 2019 Position Analysis

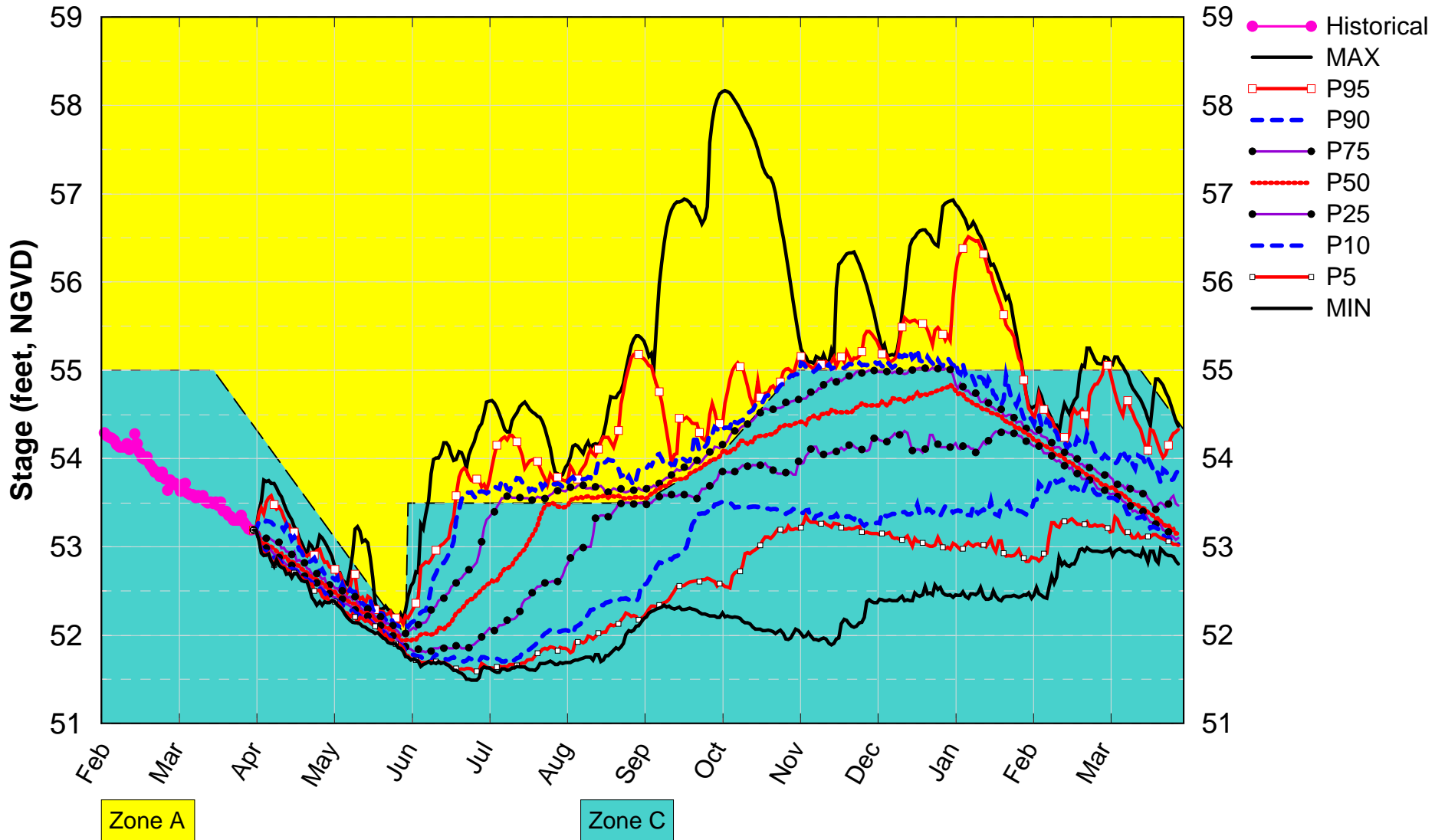
UK-OPS\_DPA Unconditional PA



(See assumptions on the Position Analysis Results website)

# S61 UK-OPS Apr 1 2019 Position Analysis

UK-OPS\_DPA Unconditional PA



(See assumptions on the Position Analysis Results website)



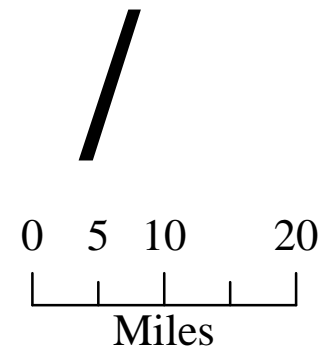
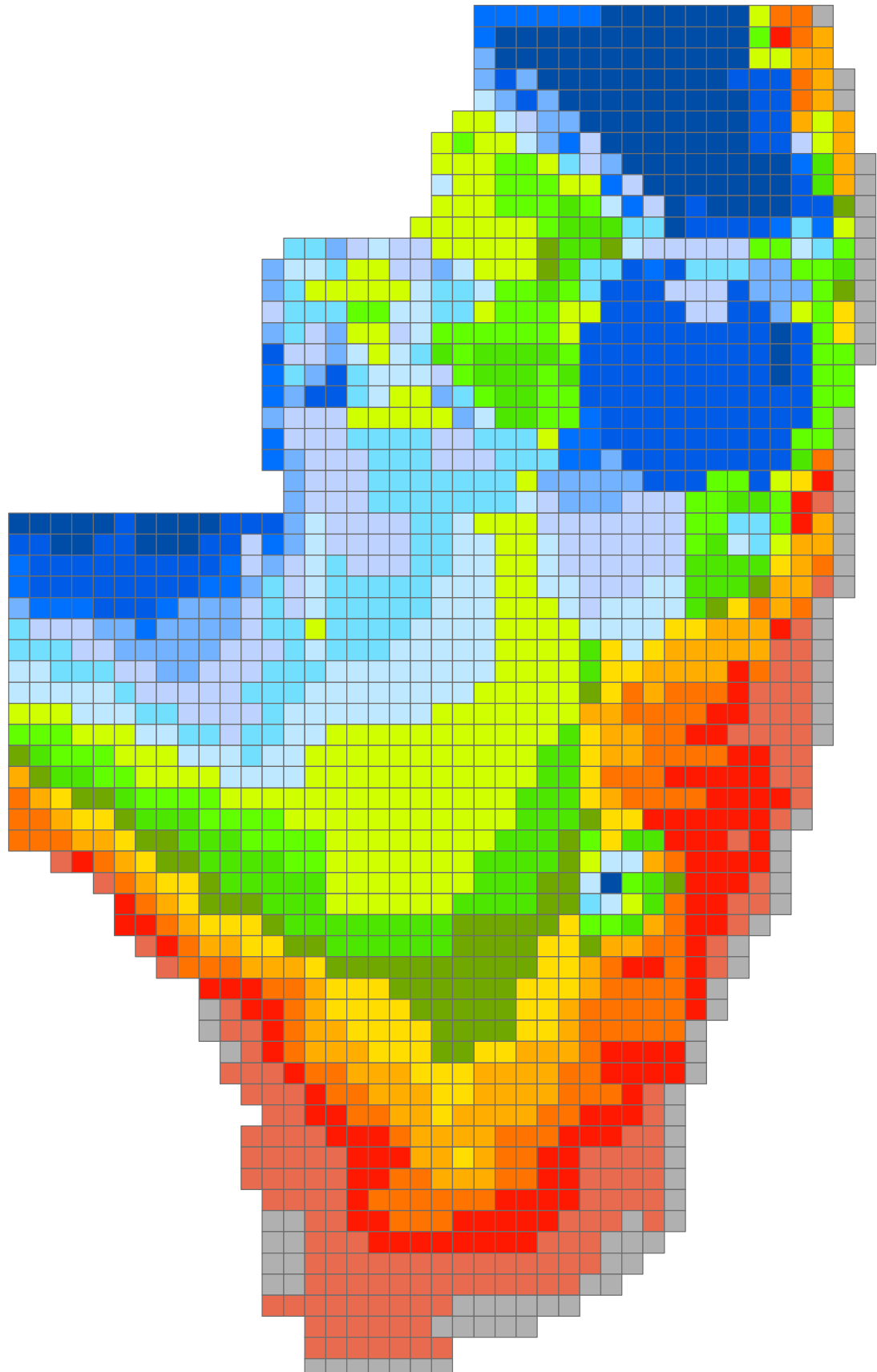
For the Dynamic Position Analysis the Upper Kissimmee Operations Screening (UK-OPS) Model is used to simulate water levels and releases from Lakes Kissimmee-Cypress-Hatchineha, Tohopekaliga, and East Lake Tohopekaliga. The UK-OPS Model is used to obtain a representation of the Lake Kissimmee operations 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	: 14.00
WPB	:C-17	:C17	:S44-H	: 6.82
WPB	:C-51W	:C51W	:S5AE-T	: 11.99
WPB	:C-51	:C51	:S155-H	: 8.23
WCA	:WCA-1 L-40	:CA1	:1-8C	: 16.77
FTLD	:Hillsboro Canal	:HLSB	:G56-H	: 8.68
WCA	:WCA-2A L-38	:L38	:S11B-H	: 11.33
WCA	:WCA-2A L-39	:CA2A	:S10A-T	: 13.33
FTLD	:C-14	:C14	:S37B-H	: 7.55
FTLD	:C-14E	:C14E	:S37A-H	: 4.37
FTLD	:Pompano	:POMP	:G57-H	: 4.43
FTLD	:C-12	:C12	:S33-H	: 3.48
FTLD	:C-13	:C13	:S36-H	: 4.89
FTLD	:North New River Canal	:NNRC	:G54-H	: 4.86
MIAMI	:L-33	:L33	:S30-H	: 5.72
MIAMI	:C-304	:C304	:S31-H	: 7.53
MIAMI	:C-9	:C9	:S29-H	: 2.10
MIAMI	:C-9 DEN	:C9DEN	:S29-H	: 2.10
MIAMI	:C-8	:C8	:S28-H	: 1.84
MIAMI	:C-7	:C7	:S27-H	: 1.80
MIAMI	:C-6	:C6	:S26-H	: 2.41
MIAMI	:C-2/C-4	:C4	:S25B-H	: 2.35
MIAMI	:L-30	:L30	:S335-H	: 6.80
WCA	:WCA-3A L-29	:CA3	:S333-H	: 9.21
WCA	:S-12A	:S12AD	:S12A-T	: 8.21
WCA	:S-12B	:S12BD	:S12B-T	: 8.35
WCA	:S-12C	:S12CD	:S12C-T	: 8.18
WCA	:S-12D	:S12DD	:S12D-T	: 6.71
MIAMI	:L-29	:L29	:S334-H	: 7.52
MIAMI	:C-100C	:C100C	:S119-H	: 2.53
MIAMI	:C-100	:C100	:S118-H	: 2.88
MIAMI	:C-100A	:C100A	:S123-H	: 2.48
HMST	:C-1/S-148	:S148U	:S148-H	: 3.70
HMST	:L-31N	:L31N	:S331-H	: 5.36
HMST	:C-1N	:C1N	:S149-H	: 2.75
MIAMI	:S-21	:S21	:S21-H	: 2.29
HMST	:L-31S	:L31S	:S176-H	: 4.38
MIAMI	:C-102N	:C102N	:S21A-H	: 1.21
HMST	:C-102	:C102	:S165-H	: 3.58
MIAMI	:C-103S	:C103S	:S167-H	: 3.01
HMST	:C-103N	:C103N	:S166-H	: 2.72
HMST	:C-103	:S179	:S179-H	: 2.28
HMST	:L-31W	:L31W	:S332-H	: 4.34
HMST	:C-111	:C111	:S177-H	: 3.34
HMST	:CNO	:CNO	:S179-H	: 2.28
HMST	:C-111E	:C111E	:S18C-H	: 2.47
HMST	:S-197	:S197	:S197-H	: 1.98
EAA	:L-23E	:L23E	:S8-T	: 11.72
EAA	:C-60	:C60	:S140-T	: 10.78

SFWMM Name	col	row	STAGE	Source	Data	match	domain	match areas
1-7	31	48	16.33	USACE		PA	CA1	
1-8T	34	47	16.07	USACE		PA	CA1	
1-9	33	46	16.29	USACE		PA	CA1	
2-17	29	40	12.18	USACE		PA	CA2	
2-159	28	43	13.11	SFWMD-ARDAMS		PA	CA2	
3-99	30	35	10.19	USACE			CA2	
3A-2	18	36	10.71	USACE		PA	CA3	
3A-3	25	37	9.73	USACE		PA	CA3	
3A-28	19	24	9.13	USACE		PA	CA3	
3A-4	21	29	9.51	USACE		PA	CA3	
3A-NW	18	40	11.65	SFWMD-ARDAMS			CA3	
3A-NE	23	40	9.96	SFWMD-ARDAMS			CA3	
3A-SW	16	30	9.46	SFWMD-ARDAMS			CA3	
3A-S	20	33	9.90	SFWMD-ARDAMS			CA3	
3-76	27	30	7.52	USACE				
3-71	24	26	7.66	USACE				
SHARK	24	23	7.30	USACE			CA3	
3BS1W	26	23	6.62	SFWMD-ARDAMS				
HOLY1	19	45	11.45	SFWMD-ARDAMS			WMA	
HOLY2	21	42	11.45	SFWMD-ARDAMS			WMA	
ROTTN	15	46	12.57	SFWMD-OPERATIONS			WMA	
ROTTT	16	43	12.34	SFWMD-OPERATIONS			WMA	
NP205	15	20	5.62	USACE			ENP	
NP201	19	21	7.19	USACE			ENP	
NP36	17	14	3.76	USACE			ENP	
NP38	16	9	1.46	USACE			ENP	
NP46	17	7	1.37	USACE			ENP	
NP67	22	7	1.97	USACE				
NP33	20	17	5.75	USACE			ENP	
NP34	13	17	2.09	USACE			ENP	
NP44	19	11	2.52	USACE			ENP	
NP206	21	15	4.78	USACE			ENP	
NESR2	25	21	6.60	USACE			ENP	
THSO	23	9	2.55	USACE				
RG2	23	15	4.34	USACE			ENP	
G3273	24	17	5.51	USACE		PA	ENP	
ANGEL	25	17	4.97	USACE		PA		
ANGEL	26	17	4.97	USACE		PA		
EVER4	25	8	1.77	USACE		PA	SA3	
E112	23	10	2.98	USACE			ENP	
G620	18	19	5.77	USACE			ENP	



















# SFWMM DYNAMIC POSITION ANALYSIS RUN INITIAL STAGE VALUES April 1, 2019

76  
75  
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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

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41

CREATED: 26APR2019





Lake Okechobee Band Probabilities (%) at the Beginning of Each Month  
'(See assumptions on the Position Analysis Results website)'  
Initial Stage 12.48 ft. for 03/01/2019

Date	HLM	High	Inter	Low	Base	Bene	WSM
2019 03 01	2.4	0.0	0.0	0.0	0.0	95.1	2.4
2019 04 01	2.4	0.0	0.0	0.0	0.0	95.1	2.4
2019 05 01	2.4	0.0	0.0	0.0	0.0	92.4	5.1
2019 06 01	2.4	0.0	0.0	0.0	0.0	73.3	24.2
2019 07 01	2.4	0.0	0.0	3.9	8.1	40.1	45.4
2019 08 01	2.4	0.0	-0.0	11.1	17.8	18.4	50.3
2019 09 01	2.4	0.0	-0.0	25.0	18.0	5.1	49.5
2019 10 01	2.4	0.0	0.4	27.0	21.3	-0.0	48.9
2019 11 01	2.4	0.1	5.0	31.4	29.7	0.4	30.9
2019 12 01	2.4	-0.0	2.8	33.7	24.7	10.0	26.3
2020 01 01	2.4	-0.0	2.9	37.0	21.0	11.4	25.3
2020 02 01	2.4	-0.0	5.9	34.8	18.0	14.3	24.6

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 - April 1, 2019 DPA Final LOK Stage 11.90

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	19	0	0.92	0.00	0.00	0.00	0.00	0.00	0.00
1965	11	0	0	46.68	0.00	0.00	0.00	0.00	0.00	0.00
1965	12	0	0	40.90	0.00	0.00	0.00	0.00	0.00	0.00
1966	1	0	0	0.71	0.00	0.00	0.00	0.00	0.00	0.00
1966	2	0	0	15.64	0.00	0.00	0.00	0.00	0.00	0.00
1966	3	0	0	111.38	0.00	0.00	0.00	0.00	0.00	0.00
1966	4	0	0	61.25	0.00	0.00	0.00	0.00	0.00	0.00
1966	5	0	0	49.46	0.00	0.00	0.01	0.01	0.01	0.01
1966	6	0	0	5.82	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	0.90	0.00	0.00	0.00	0.00	0.00	0.00
1966	9	0	0	1.19	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	6.67	0.00	0.00	0.00	0.00	0.00	0.00
1966	11	0	0	82.75	0.00	0.00	0.00	0.00	0.00	0.00
1966	12	0	0	53.84	0.00	0.00	0.00	0.00	0.00	0.00
1967	1	0	0	44.74	0.00	0.00	0.00	0.00	0.00	0.00
1967	2	0	0	26.74	0.00	0.00	0.00	0.00	0.00	0.00
1967	3	0	0	111.35	0.00	0.00	0.00	0.00	0.00	0.00
1967	4	1	1	167.77	0.30	0.18	0.00	0.00	0.30	0.18
1967	5	31	26	226.19	80.49	35.58	7.88	3.48	88.36	39.07
1967	6	30	3	37.14	3.43	9.24	6.21	16.72	9.64	25.96
1967	7	31	2	5.65	1.44	25.43	0.01	0.21	1.45	25.63
1967	8	31	4	6.14	0.83	13.55	0.00	0.00	0.83	13.55
1967	9	30	9	12.94	5.86	45.28	0.00	0.00	5.86	45.28

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	31	0	1.17	0.00	0.00	0.00	0.00	0.00	0.00
1967	11	30	18	89.02	12.14	13.64	0.30	0.33	12.43	13.97
1967	12	31	2	31.46	0.51	1.62	0.02	0.06	0.53	1.68
1968	1	31	6	57.68	1.45	2.52	0.07	0.13	1.52	2.64
1968	2	29	6	36.81	2.04	5.54	0.00	0.00	2.04	5.54
1968	3	0	0	111.99	0.00	0.00	0.00	0.00	0.00	0.00
1968	4	0	0	128.75	0.00	0.00	0.00	0.00	0.00	0.00
1968	5	4	0	27.46	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	11.04	0.00	0.00	0.00	0.00	0.00	0.00
1968	8	0	0	8.83	0.00	0.00	0.00	0.00	0.00	0.00
1968	9	0	0	7.99	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	34.96	0.00	0.00	0.00	0.00	0.00	0.00
1968	12	0	0	83.75	0.00	0.00	0.00	0.00	0.00	0.00
1969	1	0	0	25.68	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	111.37	0.00	0.00	0.00	0.00	0.00	0.00
1969	4	0	0	66.33	0.00	0.00	0.00	0.00	0.00	0.00
1969	5	0	0	25.75	0.00	0.00	0.00	0.00	0.00	0.00
1969	6	0	0	23.15	0.00	0.00	0.00	0.00	0.00	0.00
1969	7	0	0	21.96	0.00	0.00	0.00	0.00	0.00	0.00
1969	8	0	0	1.45	0.00	0.00	0.00	0.00	0.00	0.00
1969	9	0	0	0.72	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
1969	10	0	0	7.55	0.00	0.00	0.00	0.00	0.00	0.00
1969	11	0	0	10.95	0.00	0.00	0.00	0.00	0.00	0.00
1969	12	0	0	16.77	0.00	0.00	0.00	0.00	0.00	0.00
1970	1	0	0	3.95	0.00	0.00	0.00	0.00	0.00	0.00
1970	2	0	0	12.10	0.00	0.00	0.00	0.00	0.00	0.00
1970	3	0	0	111.38	0.00	0.00	0.00	0.00	0.00	0.00
1970	4	0	0	97.98	0.00	0.00	0.09	0.09	0.09	0.09
1970	5	5	0	163.02	0.00	0.00	1.07	0.66	1.07	0.66
1970	6	0	0	9.84	0.00	0.00	0.00	0.00	0.00	0.00
1970	7	0	0	10.59	0.00	0.00	0.00	0.00	0.00	0.00
1970	8	24	0	6.35	0.00	0.00	0.00	0.00	0.00	0.00
1970	9	30	5	9.40	3.47	36.89	0.00	0.00	3.47	36.89

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	31	0	10.10	0.00	0.00	0.00	0.00	0.00	0.00
1970	11	30	19	92.51	17.53	18.95	1.06	1.15	18.59	20.10
1970	12	31	26	90.41	15.86	17.54	0.00	0.00	15.86	17.54
1971	1	31	15	72.13	6.24	8.66	0.00	0.00	6.24	8.66
1971	2	28	11	51.29	13.25	25.84	0.01	0.01	13.26	25.85
1971	3	0	0	111.44	0.00	0.00	0.00	0.00	0.00	0.00
1971	4	0	0	169.01	0.00	0.00	0.00	0.00	0.00	0.00
1971	5	11	5	101.17	8.94	8.84	0.13	0.13	9.07	8.97
1971	6	30	4	34.34	2.06	6.01	0.07	0.21	2.14	6.22
1971	7	31	0	0.62	0.00	0.00	0.00	0.00	0.00	0.00
1971	8	31	0	4.40	0.00	0.00	0.00	0.00	0.00	0.00
1971	9	30	0	12.46	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
1971	10	14	3	14.50	4.79	33.05	0.00	0.00	4.79	33.06
1971	11	0	0	40.32	0.00	0.00	0.00	0.00	0.00	0.00
1971	12	0	0	49.80	0.00	0.00	0.00	0.00	0.00	0.00
1972	1	0	0	35.39	0.00	0.00	0.32	0.89	0.32	0.89
1972	2	0	0	33.23	0.00	0.00	0.00	0.01	0.00	0.01
1972	3	0	0	112.04	0.00	0.00	0.00	0.00	0.00	0.00
1972	4	0	0	51.92	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	31.29	0.00	0.00	0.62	1.99	0.62	1.99
1972	7	0	0	27.32	0.00	0.00	0.00	0.00	0.00	0.00
1972	8	0	0	37.97	0.00	0.00	0.04	0.11	0.04	0.11
1972	9	22	11	32.53	9.86	30.30	0.13	0.39	9.98	30.69

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	31	17	79.08	15.14	19.14	0.08	0.11	15.22	19.25
1972	11	30	5	27.34	4.24	15.51	0.67	2.44	4.91	17.95
1972	12	31	0	26.20	0.00	0.00	0.02	0.09	0.02	0.09
1973	1	31	1	13.52	0.01	0.06	0.06	0.47	0.07	0.53
1973	2	28	0	9.96	0.00	0.00	0.49	4.89	0.49	4.89
1973	3	0	0	111.38	0.00	0.00	0.00	0.00	0.00	0.00
1973	4	0	0	98.62	0.00	0.00	0.00	0.00	0.00	0.00
1973	5	0	0	115.99	0.00	0.00	0.17	0.15	0.17	0.15
1973	6	13	0	27.84	0.00	0.00	0.00	0.01	0.00	0.01
1973	7	31	0	1.88	0.00	0.00	0.00	0.00	0.00	0.00
1973	8	29	0	0.30	0.00	0.00	0.00	0.00	0.00	0.00
1973	9	3	0	0.99	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	18.73	0.00	0.00	0.05	0.29	0.05	0.29
1973	11	0	0	92.12	0.00	0.00	0.00	0.00	0.00	0.00
1973	12	0	0	26.58	0.00	0.00	0.00	0.00	0.00	0.00
1974	1	0	0	46.07	0.00	0.00	0.05	0.12	0.05	0.12
1974	2	0	0	75.75	0.00	0.00	0.00	0.00	0.00	0.00
1974	3	0	0	111.51	0.00	0.00	0.00	0.00	0.00	0.00
1974	4	0	0	108.02	0.00	0.00	0.00	0.00	0.00	0.00
1974	5	28	3	99.31	2.57	2.58	0.15	0.15	2.72	2.74
1974	6	30	0	9.89	0.00	0.00	0.89	8.97	0.89	8.97
1974	7	1	0	1.17	0.00	0.00	0.34	29.27	0.34	29.27
1974	8	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1974	9	0	0	0.99	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	25.54	0.00	0.00	0.00	0.00	0.00	0.00
1974	11	0	0	63.88	0.00	0.00	0.00	0.00	0.00	0.00
1974	12	0	0	18.15	0.00	0.00	0.00	0.00	0.00	0.00
1975	1	0	0	76.36	0.00	0.00	0.00	0.00	0.00	0.00
1975	2	0	0	68.30	0.00	0.00	0.00	0.00	0.00	0.00
1975	3	0	0	111.36	0.00	0.00	0.00	0.00	0.00	0.00
1975	4	0	0	111.70	0.00	0.00	0.00	0.00	0.00	0.00
1975	5	0	0	42.71	0.00	0.00	0.07	0.17	0.07	0.17
1975	6	0	0	4.60	0.00	0.00	0.00	0.00	0.00	0.00
1975	7	21	0	2.61	0.00	0.00	0.00	0.00	0.00	0.00
1975	8	31	4	8.57	2.50	29.16	0.00	0.00	2.50	29.16
1975	9	30	0	0.49	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	9	0	3.44	0.00	0.00	0.00	0.00	0.00	0.00
1975	11	0	0	53.26	0.00	0.00	0.00	0.00	0.00	0.00
1975	12	0	0	76.85	0.00	0.00	0.00	0.00	0.00	0.00
1976	1	2	0	59.54	0.00	0.00	0.05	0.08	0.05	0.08
1976	2	29	13	63.99	9.80	15.32	0.02	0.03	9.83	15.36
1976	3	0	0	111.84	0.00	0.00	0.00	0.00	0.00	0.00
1976	4	0	0	110.93	0.00	0.00	0.00	0.00	0.00	0.00
1976	5	0	0	9.65	0.00	0.00	0.00	0.00	0.00	0.00
1976	6	0	0	16.61	0.00	0.00	0.00	0.00	0.00	0.00
1976	7	0	0	18.60	0.00	0.00	0.03	0.15	0.03	0.15
1976	8	0	0	2.59	0.00	0.00	0.00	0.00	0.00	0.00
1976	9	0	0	2.32	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
1976	10	0	0	66.70	0.00	0.00	0.00	0.00	0.00	0.00
1976	11	0	0	46.17	0.00	0.00	0.00	0.00	0.00	0.00
1976	12	0	0	22.58	0.00	0.00	0.06	0.28	0.06	0.28
1977	1	0	0	1.71	0.00	0.00	0.00	0.00	0.00	0.00
1977	2	0	0	52.66	0.00	0.00	0.00	0.00	0.00	0.00
1977	3	0	0	111.52	0.00	0.00	0.00	0.00	0.00	0.00
1977	4	0	0	131.69	0.00	0.00	0.00	0.00	0.00	0.00
1977	5	13	2	42.79	2.00	4.67	0.05	0.11	2.04	4.78
1977	6	14	6	62.26	20.50	32.92	0.05	0.08	20.55	33.01
1977	7	31	5	20.50	4.97	24.26	0.00	0.00	4.97	24.26
1977	8	31	2	7.67	0.74	9.68	0.00	0.00	0.74	9.68
1977	9	30	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	31	14	70.00	20.23	28.90	0.00	0.00	20.23	28.90
1977	11	30	0	24.74	0.00	0.00	0.98	3.97	0.98	3.97
1977	12	13	0	1.15	0.00	0.00	0.00	0.00	0.00	0.00
1978	1	0	0	7.18	0.00	0.00	0.00	0.00	0.00	0.00
1978	2	0	0	25.17	0.00	0.00	0.00	0.00	0.00	0.00
1978	3	0	0	111.54	0.00	0.00	0.00	0.00	0.00	0.00
1978	4	0	0	104.13	0.00	0.00	0.00	0.00	0.00	0.00
1978	5	0	0	18.39	0.00	0.00	0.00	0.00	0.00	0.00
1978	6	0	0	20.86	0.00	0.00	0.00	0.00	0.00	0.00
1978	7	0	0	1.10	0.00	0.00	0.00	0.00	0.00	0.00
1978	8	0	0	0.08	0.00	0.00	0.00	0.00	0.00	0.00
1978	9	0	0	1.88	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	8.73	0.00	0.00	0.00	0.00	0.00	0.00
1978	11	0	0	24.50	0.00	0.00	0.00	0.00	0.00	0.00
1978	12	0	0	17.73	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	39.74	0.00	0.00	0.00	0.00	0.00	0.00
1979	3	0	0	111.53	0.00	0.00	0.00	0.00	0.00	0.00
1979	4	0	0	110.50	0.00	0.00	0.00	0.00	0.00	0.00
1979	5	0	0	0.65	0.00	0.00	0.00	0.00	0.00	0.00
1979	6	0	0	151.39	0.00	0.00	1.93	1.27	1.93	1.27
1979	7	28	5	22.07	5.17	23.42	0.00	0.00	5.17	23.42
1979	8	31	2	7.83	1.01	12.87	0.00	0.00	1.01	12.87
1979	9	17	0	0.28	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
1979	10	0	0	12.93	0.00	0.00	0.00	0.00	0.00	0.00
1979	11	0	0	4.40	0.00	0.00	0.00	0.00	0.00	0.00
1979	12	0	0	19.56	0.00	0.00	0.00	0.00	0.00	0.00
1980	1	0	0	36.72	0.00	0.00	0.00	0.00	0.00	0.00
1980	2	0	0	11.21	0.00	0.00	0.00	0.00	0.00	0.00
1980	3	0	0	112.06	0.00	0.00	0.00	0.00	0.00	0.00
1980	4	0	0	13.03	0.00	0.00	0.04	0.27	0.04	0.27
1980	5	0	0	96.31	0.00	0.00	0.04	0.04	0.04	0.04
1980	6	0	0	129.56	0.00	0.00	0.88	0.68	0.88	0.68
1980	7	25	4	14.80	4.07	27.50	0.00	0.00	4.07	27.50
1980	8	31	0	7.17	0.00	0.00	0.00	0.00	0.00	0.00
1980	9	30	0	2.74	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
1980	10	31	19	77.30	19.08	24.68	0.00	0.00	19.08	24.68
1980	11	30	5	29.31	2.69	9.17	0.64	2.18	3.33	11.35
1980	12	31	8	38.34	6.55	17.07	0.00	0.00	6.55	17.07
1981	1	31	27	74.19	28.18	37.98	0.00	0.00	28.18	37.98
1981	2	28	7	31.75	7.00	22.05	0.04	0.13	7.04	22.18
1981	3	0	0	111.49	0.00	0.00	0.00	0.00	0.00	0.00
1981	4	0	0	152.03	0.00	0.00	0.02	0.01	0.02	0.01
1981	5	28	15	168.22	40.86	24.29	1.44	0.86	42.30	25.15
1981	6	30	11	85.06	28.43	33.42	4.09	4.80	32.52	38.22
1981	7	31	17	70.85	46.06	65.02	0.00	0.00	46.06	65.02
1981	8	31	0	2.22	0.00	0.00	0.00	0.00	0.00	0.00
1981	9	30	0	1.94	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	31	28	102.11	35.40	34.67	0.00	0.00	35.40	34.67
1981	11	30	13	51.46	22.72	44.15	0.90	1.74	23.62	45.90
1981	12	31	29	88.82	39.48	44.45	0.00	0.00	39.49	44.45
1982	1	31	27	75.21	28.98	38.54	0.00	0.00	28.99	38.54
1982	2	28	3	29.93	2.61	8.72	0.00	0.00	2.61	8.73
1982	3	0	0	111.38	0.00	0.00	0.00	0.00	0.00	0.00
1982	4	0	0	34.28	0.00	0.00	0.00	0.00	0.00	0.00
1982	5	0	0	109.79	0.00	0.00	0.21	0.19	0.21	0.19
1982	6	0	0	20.20	0.00	0.00	0.11	0.57	0.11	0.57
1982	7	0	0	4.90	0.00	0.00	0.00	0.00	0.00	0.00
1982	8	0	0	2.25	0.00	0.00	0.00	0.00	0.00	0.00
1982	9	0	0	5.13	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	13.18	0.00	0.00	0.00	0.00	0.00	0.00
1982	11	0	0	44.72	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	21.80	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	111.36	0.00	0.00	0.00	0.00	0.00	0.00
1983	4	0	0	47.14	0.00	0.00	0.01	0.03	0.01	0.03
1983	5	0	0	208.32	0.00	0.00	0.36	0.17	0.36	0.17
1983	6	0	0	29.03	0.00	0.00	0.00	0.00	0.00	0.00
1983	7	13	6	34.65	5.47	15.79	0.00	0.00	5.47	15.79
1983	8	31	2	5.63	0.18	3.13	0.02	0.29	0.19	3.42
1983	9	30	3	6.79	3.19	46.99	0.00	0.07	3.19	47.06

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	17	0	3.28	0.00	0.00	0.00	0.00	0.00	0.00
1983	11	0	0	19.88	0.00	0.00	0.00	0.00	0.00	0.00
1983	12	0	0	16.94	0.00	0.00	0.00	0.00	0.00	0.00
1984	1	0	0	29.43	0.00	0.00	0.00	0.00	0.00	0.00
1984	2	0	0	32.21	0.00	0.00	0.00	0.00	0.00	0.00
1984	3	0	0	111.89	0.00	0.00	0.00	0.00	0.00	0.00
1984	4	0	0	57.17	0.00	0.00	0.01	0.02	0.01	0.02
1984	5	0	0	118.46	0.00	0.00	0.05	0.04	0.05	0.04
1984	6	0	0	52.98	0.00	0.00	0.16	0.30	0.16	0.30
1984	7	0	0	1.76	0.00	0.00	0.01	0.30	0.01	0.30
1984	8	0	0	19.23	0.00	0.00	0.01	0.04	0.01	0.04
1984	9	0	0	14.35	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	51.94	0.00	0.00	0.00	0.00	0.00	0.00
1984	11	0	0	58.28	0.00	0.00	0.01	0.01	0.01	0.01
1984	12	0	0	47.59	0.00	0.00	0.00	0.00	0.00	0.00
1985	1	0	0	58.12	0.00	0.00	0.09	0.15	0.09	0.15
1985	2	18	14	88.45	8.05	9.10	0.00	0.00	8.05	9.11
1985	3	0	0	111.49	0.00	0.00	0.00	0.00	0.00	0.00
1985	4	0	0	27.24	0.00	0.00	0.00	0.00	0.00	0.00
1985	5	0	0	110.17	0.00	0.00	0.00	0.00	0.00	0.00
1985	6	24	5	103.21	17.09	16.56	0.48	0.47	17.58	17.03
1985	7	31	1	5.21	1.24	23.71	0.00	0.00	1.24	23.71
1985	8	31	0	2.01	0.00	0.00	0.00	0.00	0.00	0.00
1985	9	30	0	0.30	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	18	0	8.01	0.00	0.00	0.00	0.00	0.00	0.00
1985	11	0	0	34.07	0.00	0.00	0.00	0.00	0.00	0.00
1985	12	0	0	18.00	0.00	0.00	0.00	0.00	0.00	0.00
1986	1	0	0	13.93	0.00	0.00	0.08	0.57	0.08	0.57
1986	2	0	0	47.93	0.00	0.00	0.14	0.30	0.14	0.30
1986	3	0	0	111.33	0.00	0.00	0.00	0.00	0.00	0.00
1986	4	0	0	146.68	0.00	0.00	0.02	0.01	0.02	0.01
1986	5	29	6	130.72	11.84	9.05	0.32	0.25	12.16	9.30
1986	6	30	4	25.92	3.63	13.99	0.51	1.99	4.14	15.98
1986	7	0	0	3.17	0.00	0.00	0.00	0.00	0.00	0.00
1986	8	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1986	9	1	0	5.81	0.00	0.00	0.00	0.07	0.00	0.07

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	12	0	30.61	0.00	0.00	0.02	0.05	0.02	0.05
1986	11	0	0	22.57	0.00	0.00	0.10	0.43	0.10	0.43
1986	12	0	0	40.29	0.00	0.00	0.49	1.22	0.49	1.22
1987	1	0	0	12.02	0.00	0.00	0.01	0.05	0.01	0.05
1987	2	0	0	20.86	0.00	0.00	0.04	0.17	0.04	0.17
1987	3	0	0	111.36	0.00	0.00	0.00	0.00	0.00	0.00
1987	4	0	0	132.66	0.00	0.00	0.02	0.02	0.02	0.02
1987	5	0	0	109.45	0.00	0.00	0.56	0.51	0.56	0.51
1987	6	17	7	113.67	10.45	9.19	0.02	0.02	10.47	9.21
1987	7	31	6	13.92	3.50	25.17	0.00	0.00	3.50	25.18
1987	8	31	19	60.36	42.66	70.68	0.00	0.00	42.66	70.68
1987	9	30	11	16.22	7.62	46.99	0.00	0.00	7.62	47.00

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	31	0	17.92	0.00	0.00	0.00	0.00	0.00	0.00
1987	11	20	0	2.63	0.00	0.00	0.33	12.57	0.33	12.57
1987	12	0	0	34.41	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	10.81	0.00	0.00	0.00	0.00	0.00	0.00
1988	3	0	0	111.82	0.00	0.00	0.00	0.00	0.00	0.00
1988	4	0	0	133.52	0.00	0.00	0.00	0.00	0.00	0.00
1988	5	0	0	107.73	0.00	0.00	0.26	0.24	0.26	0.24
1988	6	6	1	57.26	1.00	1.74	0.28	0.48	1.27	2.22
1988	7	31	0	6.99	0.00	0.00	0.00	0.00	0.00	0.00
1988	8	31	0	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1988	9	30	15	50.32	25.67	51.02	0.00	0.00	25.67	51.02

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	31	28	123.27	39.97	32.43	0.00	0.00	39.97	32.43
1988	11	30	0	40.33	0.00	0.00	0.84	2.07	0.84	2.07
1988	12	31	4	46.88	1.47	3.13	0.06	0.12	1.53	3.26
1989	1	31	12	54.57	7.49	13.73	0.06	0.11	7.55	13.83
1989	2	28	20	86.39	15.94	18.45	0.04	0.04	15.98	18.50
1989	3	0	0	111.56	0.00	0.00	0.00	0.00	0.00	0.00
1989	4	0	0	43.53	0.00	0.00	0.01	0.02	0.01	0.02
1989	5	0	0	128.49	0.00	0.00	0.18	0.14	0.18	0.14
1989	6	13	1	119.07	3.62	3.04	3.68	3.09	7.30	6.13
1989	7	31	9	34.14	15.94	46.69	0.00	0.00	15.94	46.69
1989	8	31	2	5.15	0.39	7.51	0.00	0.00	0.39	7.51
1989	9	30	0	0.86	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	31	1	14.23	0.11	0.80	0.00	0.00	0.11	0.80
1989	11	30	21	92.99	10.83	11.65	0.74	0.80	11.57	12.45
1989	12	31	2	24.68	0.37	1.51	0.02	0.07	0.39	1.58
1990	1	31	12	58.36	6.36	10.90	0.07	0.12	6.43	11.02
1990	2	28	0	11.98	0.00	0.00	0.03	0.24	0.03	0.24
1990	3	0	0	111.42	0.00	0.00	0.00	0.00	0.00	0.00
1990	4	0	0	95.81	0.00	0.00	0.00	0.00	0.00	0.00
1990	5	0	0	46.44	0.00	0.00	0.20	0.43	0.20	0.43
1990	6	14	4	57.05	8.27	14.49	0.44	0.77	8.70	15.26
1990	7	31	1	5.22	0.13	2.55	0.00	0.00	0.13	2.55
1990	8	25	0	2.54	0.00	0.00	0.00	0.00	0.00	0.00
1990	9	25	11	21.01	4.55	21.66	0.00	0.00	4.55	21.66

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	13	0	14.45	0.00	0.00	0.00	0.00	0.00	0.00
1990	11	0	0	76.96	0.00	0.00	0.00	0.00	0.00	0.00
1990	12	0	0	78.02	0.00	0.00	0.00	0.00	0.00	0.00
1991	1	0	0	4.70	0.00	0.00	0.00	0.00	0.00	0.00
1991	2	0	0	26.96	0.00	0.00	0.00	0.00	0.00	0.00
1991	3	0	0	111.52	0.00	0.00	0.00	0.00	0.00	0.00
1991	4	0	0	7.54	0.00	0.00	0.00	0.00	0.00	0.00
1991	5	0	0	50.55	0.00	0.00	0.00	0.00	0.00	0.00
1991	6	0	0	15.77	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	8.25	0.00	0.00	0.00	0.00	0.00	0.00
1991	9	0	0	4.98	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
1991	10	0	0	11.81	0.00	0.00	0.00	0.00	0.00	0.00
1991	11	0	0	42.95	0.00	0.00	0.00	0.00	0.00	0.00
1991	12	0	0	34.50	0.00	0.00	0.00	0.00	0.00	0.00
1992	1	0	0	19.65	0.00	0.00	0.00	0.00	0.00	0.00
1992	2	0	0	22.41	0.00	0.00	0.00	0.00	0.00	0.00
1992	3	0	0	111.89	0.00	0.00	0.00	0.00	0.00	0.00
1992	4	0	0	10.67	0.00	0.00	0.01	0.07	0.01	0.07
1992	5	0	0	202.09	0.00	0.00	0.63	0.31	0.63	0.31
1992	6	0	0	20.88	0.00	0.00	0.09	0.41	0.09	0.41
1992	7	0	0	17.66	0.00	0.00	0.00	0.00	0.00	0.00
1992	8	0	0	6.24	0.00	0.00	0.00	0.00	0.00	0.00
1992	9	0	0	0.90	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	50.89	0.00	0.00	0.00	0.00	0.00	0.00
1992	11	0	0	19.89	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	111.36	0.00	0.00	0.00	0.00	0.00	0.00
1993	4	0	0	59.77	0.00	0.00	0.04	0.06	0.04	0.06
1993	5	0	0	182.03	0.00	0.00	0.06	0.03	0.06	0.03
1993	6	9	0	39.46	0.00	0.00	0.01	0.03	0.01	0.03
1993	7	31	14	51.41	21.81	42.43	0.00	0.00	21.81	42.43
1993	8	31	20	56.27	28.41	50.49	0.00	0.00	28.41	50.49
1993	9	30	0	2.85	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	31	0	3.07	0.00	0.00	0.00	0.00	0.00	0.00
1993	11	30	0	35.97	0.00	0.00	0.17	0.48	0.17	0.48
1993	12	31	7	48.38	4.04	8.34	0.05	0.11	4.09	8.45
1994	1	15	0	7.88	0.00	0.00	0.32	4.08	0.32	4.08
1994	2	0	0	8.98	0.00	0.00	0.00	0.00	0.00	0.00
1994	3	0	0	111.44	0.00	0.00	0.00	0.00	0.00	0.00
1994	4	0	0	63.92	0.00	0.00	0.04	0.07	0.04	0.07
1994	5	0	0	97.92	0.00	0.00	0.02	0.02	0.02	0.02
1994	6	0	0	18.55	0.00	0.00	0.00	0.00	0.00	0.00
1994	7	0	0	16.94	0.00	0.00	0.00	0.00	0.00	0.00
1994	8	0	0	0.17	0.00	0.00	0.00	0.00	0.00	0.00
1994	9	0	0	0.55	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	7.58	0.00	0.00	0.00	0.00	0.00	0.00
1994	11	0	0	10.50	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	3.48	0.00	0.00	0.00	0.00	0.00	0.00
1995	2	0	0	7.79	0.00	0.00	0.00	0.00	0.00	0.00
1995	3	0	0	111.49	0.00	0.00	0.00	0.00	0.00	0.00
1995	4	0	0	74.31	0.00	0.00	0.00	0.00	0.00	0.00
1995	5	0	0	91.78	0.00	0.00	0.06	0.06	0.06	0.06
1995	6	0	0	23.44	0.00	0.00	0.32	1.36	0.32	1.36
1995	7	0	0	12.03	0.00	0.00	0.00	0.00	0.00	0.00
1995	8	0	0	2.05	0.00	0.00	0.00	0.00	0.00	0.00
1995	9	0	0	10.30	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	0.84	0.00	0.00	0.00	0.00	0.00	0.00
1995	11	0	0	45.22	0.00	0.00	0.00	0.00	0.00	0.00
1995	12	0	0	32.31	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	111.92	0.00	0.00	0.00	0.00	0.00	0.00
1996	4	0	0	78.59	0.00	0.00	0.00	0.00	0.00	0.00
1996	5	0	0	34.55	0.00	0.00	0.00	0.00	0.00	0.00
1996	6	0	0	3.08	0.00	0.00	0.00	0.00	0.00	0.00
1996	7	0	0	55.57	0.00	0.00	0.00	0.00	0.00	0.00
1996	8	0	0	12.38	0.00	0.00	0.08	0.66	0.08	0.66
1996	9	8	4	28.61	4.77	16.69	0.02	0.05	4.79	16.74

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	13	0	16.51	0.00	0.00	0.00	0.00	0.00	0.00
1996	11	0	0	68.55	0.00	0.00	0.11	0.16	0.11	0.16
1996	12	12	6	72.35	3.91	5.40	0.01	0.01	3.91	5.41
1997	1	31	5	41.60	0.85	2.05	0.10	0.23	0.95	2.28
1997	2	28	5	43.61	2.35	5.39	0.11	0.26	2.47	5.65
1997	3	0	0	111.35	0.00	0.00	0.00	0.00	0.00	0.00
1997	4	0	0	31.56	0.00	0.00	0.07	0.23	0.07	0.23
1997	5	0	0	19.77	0.00	0.00	0.07	0.36	0.07	0.36
1997	6	0	0	31.82	0.00	0.00	0.64	2.01	0.64	2.01
1997	7	0	0	12.28	0.00	0.00	0.00	0.00	0.00	0.00
1997	8	0	0	1.95	0.00	0.00	0.00	0.00	0.00	0.00
1997	9	0	0	6.20	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	47.12	0.00	0.00	0.00	0.00	0.00	0.00
1997	11	0	0	16.15	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	1.99	0.00	0.00	0.00	0.00	0.00	0.00
1998	3	0	0	111.41	0.00	0.00	0.00	0.00	0.00	0.00
1998	4	0	0	96.06	0.00	0.00	0.00	0.00	0.00	0.00
1998	5	0	0	131.71	0.00	0.00	0.17	0.13	0.17	0.13
1998	6	27	24	173.89	85.20	49.00	1.94	1.11	87.14	50.11
1998	7	31	9	33.52	15.29	45.63	0.00	0.00	15.29	45.63
1998	8	31	4	9.53	1.67	17.49	0.67	7.04	2.34	24.53
1998	9	30	1	2.26	0.19	8.34	0.00	0.00	0.19	8.34

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	31	0	23.62	0.00	0.00	0.00	0.00	0.00	0.00
1998	11	6	3	19.77	2.07	10.49	0.55	2.79	2.63	13.28
1998	12	0	0	31.23	0.00	0.00	0.00	0.00	0.00	0.00
1999	1	0	0	10.34	0.00	0.00	0.00	0.00	0.00	0.00
1999	2	0	0	47.75	0.00	0.00	0.00	0.00	0.00	0.00
1999	3	0	0	111.42	0.00	0.00	0.00	0.00	0.00	0.00
1999	4	5	2	124.60	1.35	1.08	0.00	0.00	1.35	1.08
1999	5	0	0	87.19	0.00	0.00	0.20	0.23	0.20	0.23
1999	6	0	0	6.49	0.00	0.00	0.00	0.00	0.00	0.00
1999	7	0	0	8.64	0.00	0.00	0.00	0.02	0.00	0.02
1999	8	0	0	13.26	0.00	0.00	0.10	0.72	0.10	0.72
1999	9	0	0	1.54	0.00	0.00	0.28	18.09	0.28	18.09

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	37.44	0.00	0.00	0.00	0.00	0.00	0.00
1999	12	0	0	47.29	0.00	0.00	0.00	0.00	0.00	0.00
2000	1	0	0	59.58	0.00	0.00	0.00	0.00	0.00	0.00
2000	2	0	0	65.02	0.00	0.00	0.00	0.00	0.00	0.00
2000	3	0	0	111.79	0.00	0.00	0.00	0.00	0.00	0.00
2000	4	0	0	79.53	0.00	0.00	0.00	0.00	0.00	0.00
2000	5	3	3	183.60	4.84	2.63	0.07	0.04	4.90	2.67
2000	6	30	22	183.89	99.69	54.21	3.77	2.05	103.45	56.26
2000	7	31	0	2.70	0.00	0.00	0.00	0.00	0.00	0.00
2000	8	31	16	50.89	37.34	73.36	0.00	0.00	37.34	73.36
2000	9	30	5	5.12	2.21	43.23	0.00	0.00	2.21	43.23



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	31	10	43.56	8.09	18.57	0.00	0.00	8.09	18.57
2000	11	30	29	106.25	48.46	45.61	0.13	0.12	48.59	45.73
2000	12	31	26	80.02	32.51	40.63	0.03	0.04	32.54	40.67
2001	1	31	27	71.96	27.37	38.04	0.01	0.01	27.38	38.05
2001	2	28	28	97.21	46.50	47.84	0.00	0.00	46.50	47.84
2001	3	0	0	111.65	0.00	0.00	0.00	0.00	0.00	0.00
2001	4	0	0	137.59	0.00	0.00	0.00	0.00	0.00	0.00
2001	5	12	4	144.65	9.98	6.90	0.18	0.12	10.16	7.02
2001	6	30	5	47.60	6.60	13.86	0.00	0.00	6.60	13.87
2001	7	31	2	11.99	3.14	26.22	0.00	0.00	3.14	26.22
2001	8	31	11	28.25	13.75	48.65	0.00	0.00	13.75	48.65
2001	9	14	2	6.42	2.29	35.62	0.00	0.00	2.29	35.62

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	10.08	0.00	0.00	0.00	0.00	0.00	0.00
2001	11	0	0	41.35	0.00	0.00	0.00	0.00	0.00	0.00
2001	12	0	0	41.18	0.00	0.00	0.00	0.00	0.00	0.00
2002	1	0	0	27.28	0.00	0.00	0.00	0.00	0.00	0.00
2002	2	0	0	30.49	0.00	0.00	0.00	0.00	0.00	0.00
2002	3	0	0	111.50	0.00	0.00	0.00	0.00	0.00	0.00
2002	4	0	0	103.89	0.00	0.00	0.00	0.00	0.00	0.00
2002	5	24	9	159.26	14.65	9.20	0.86	0.54	15.50	9.73
2002	6	30	10	73.11	30.13	41.20	4.92	6.73	35.05	47.94
2002	7	2	0	12.49	0.00	0.00	0.00	0.00	0.00	0.00
2002	8	0	0	14.67	0.00	0.00	0.08	0.54	0.08	0.54
2002	9	0	0	10.70	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	11.85	0.00	0.00	0.00	0.00	0.00	0.00
2002	11	0	0	30.78	0.00	0.00	0.00	0.00	0.00	0.00
2002	12	0	0	7.60	0.00	0.00	0.00	0.00	0.00	0.00
2003	1	0	0	45.81	0.00	0.00	0.00	0.00	0.00	0.00
2003	2	0	0	56.70	0.00	0.00	0.00	0.00	0.00	0.00
2003	3	0	0	111.58	0.00	0.00	0.00	0.00	0.00	0.00
2003	4	0	0	82.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	5	0	0	55.51	0.00	0.00	0.00	0.00	0.00	0.00
2003	6	0	0	16.09	0.00	0.00	0.12	0.73	0.12	0.73
2003	7	0	0	15.90	0.00	0.00	0.94	5.89	0.94	5.89
2003	8	0	0	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2003	9	0	0	1.25	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	41.15	0.00	0.00	0.00	0.00	0.00	0.00
2003	11	0	0	32.65	0.00	0.00	0.00	0.00	0.00	0.00
2003	12	0	0	28.50	0.00	0.00	0.01	0.02	0.01	0.02
2004	1	0	0	45.46	0.00	0.00	0.00	0.00	0.00	0.00
2004	2	0	0	17.51	0.00	0.00	0.00	0.00	0.00	0.00
2004	3	0	0	111.90	0.00	0.00	0.00	0.00	0.00	0.00
2004	4	0	0	94.20	0.00	0.00	0.00	0.00	0.00	0.00
2004	5	5	5	195.11	18.92	9.70	0.04	0.02	18.96	9.72
2004	6	30	9	61.64	21.42	34.74	1.27	2.07	22.69	36.81
2004	7	31	18	54.40	32.04	58.89	0.03	0.06	32.07	58.95
2004	8	31	0	0.07	0.00	0.00	0.06	78.71	0.06	78.71
2004	9	7	0	0.28	0.00	0.00	0.13	46.41	0.13	46.41



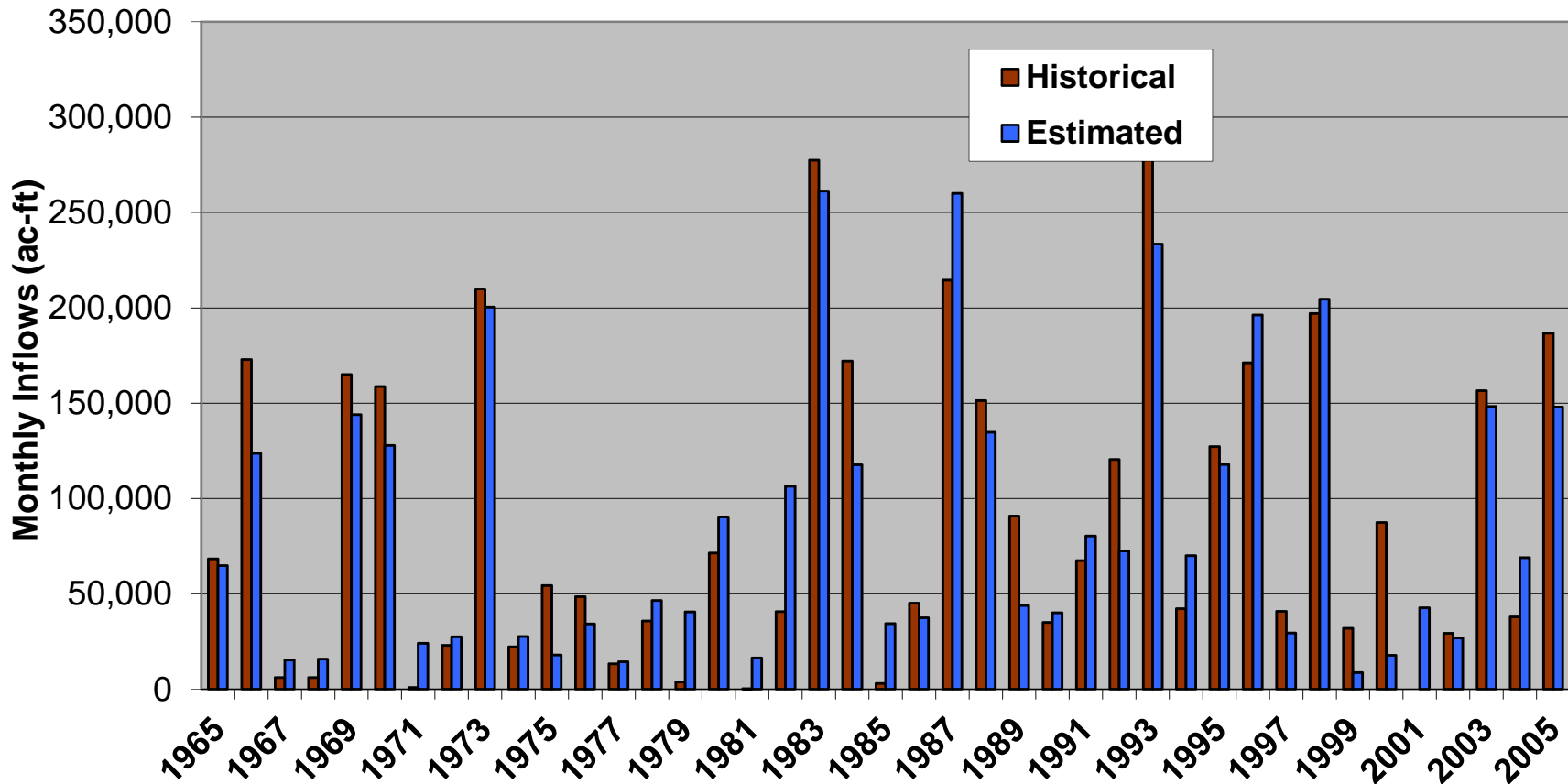
Annual Supply Side Management Results  
for the Lake Okeechobee Service Area  
Report by Water Years Oct-Sep  
(Volumes in 1000 ac-ft)

Run:  
SFWMM v6.7.4 - April 1, 2019 DPA Final LOK Stage 11.90

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	19	0	334.85	0.00	0.00	0.01	0.00	0.01	0.00
1967	154	45	781.93	92.35	11.81	14.10	1.80	106.45	13.61
1968	156	32	513.03	16.14	3.15	0.39	0.08	16.52	3.22
1969	0	0	442.11	0.00	0.00	0.00	0.00	0.00	0.00
1970	59	5	459.87	3.47	0.75	1.16	0.25	4.63	1.01
1971	284	80	749.87	63.89	8.52	1.28	0.17	65.17	8.69
1972	36	14	489.96	14.65	2.99	1.11	0.23	15.76	3.22
1973	227	23	513.10	19.38	3.78	1.50	0.29	20.88	4.07
1974	59	3	590.14	2.57	0.43	1.49	0.25	4.05	0.69
1975	82	4	534.27	2.50	0.47	0.07	0.01	2.57	0.48
1976	40	13	529.62	9.80	1.85	0.09	0.02	9.90	1.87
1977	119	15	566.35	28.21	4.98	0.16	0.03	28.37	5.01
1978	74	14	386.22	20.23	5.24	0.98	0.25	21.21	5.49
1979	76	7	494.95	6.18	1.25	1.93	0.39	8.10	1.64
1980	86	4	460.50	4.07	0.88	0.95	0.21	5.03	1.09
1981	301	109	842.70	178.84	21.22	6.23	0.74	185.07	21.96
1982	151	100	635.44	129.20	20.33	1.22	0.19	130.42	20.52
1983	74	11	569.79	8.84	1.55	0.39	0.07	9.23	1.62
1984	17	0	477.58	0.00	0.00	0.23	0.05	0.23	0.05
1985	134	20	664.01	26.38	3.97	0.58	0.09	26.96	4.06
1986	78	10	545.59	15.46	2.83	1.08	0.20	16.55	3.03
1987	121	43	683.99	64.23	9.39	1.25	0.18	65.49	9.57
1988	149	16	542.38	26.67	4.92	0.87	0.16	27.54	5.08
1989	256	76	794.26	84.82	10.68	4.87	0.61	89.69	11.29
1990	246	52	541.75	30.63	5.65	1.49	0.28	32.13	5.93
1991	13	0	399.72	0.00	0.00	0.00	0.00	0.00	0.00
1992	0	0	501.63	0.00	0.00	0.72	0.14	0.72	0.14
1993	101	34	620.63	50.22	8.09	0.11	0.02	50.34	8.11
1994	107	7	413.77	4.04	0.98	0.61	0.15	4.65	1.12
1995	0	0	355.04	0.00	0.00	0.38	0.11	0.38	0.11
1996	8	4	489.67	4.77	0.97	0.10	0.02	4.87	0.99
1997	84	16	457.55	7.11	1.55	1.10	0.24	8.22	1.80
1998	119	38	625.81	102.35	16.35	2.78	0.44	105.13	16.80
1999	42	5	485.85	3.42	0.70	1.13	0.23	4.55	0.94
2000	125	46	827.29	144.07	17.41	3.83	0.46	147.91	17.88
2001	269	144	887.16	198.69	22.40	0.36	0.04	199.05	22.44
2002	56	19	636.01	44.77	7.04	5.86	0.92	50.63	7.96
2003	0	0	435.08	0.00	0.00	1.05	0.24	1.05	0.24
2004	104	32	682.87	72.37	10.60	1.53	0.22	73.91	10.82
2005	0	0	523.38	0.00	0.00	0.09	0.02	0.09	0.02

# April 1 2019 Dynamic Position Analysis Historical and Estimated S-65E Monthly Flow for April from 1965 - 2005



## April 1 2019 Dynamic Position Analysis Historical and Estimated S-65E Monthly Flow for May from 1965 - 2005

