

Dynamic Position Analysis for July 1, 2019

SFWMM Model Simulation of 41 years (1965-2005)

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July 1, 2019

Dynamic Position Analysis Using Hybrid LOWSM Modeling Assumptions

- July 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 June 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.

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. El Niño is predicted to persist through the summer 2019 (66% chance), with lower odds of continuing through the fall and winter (50-55% 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:

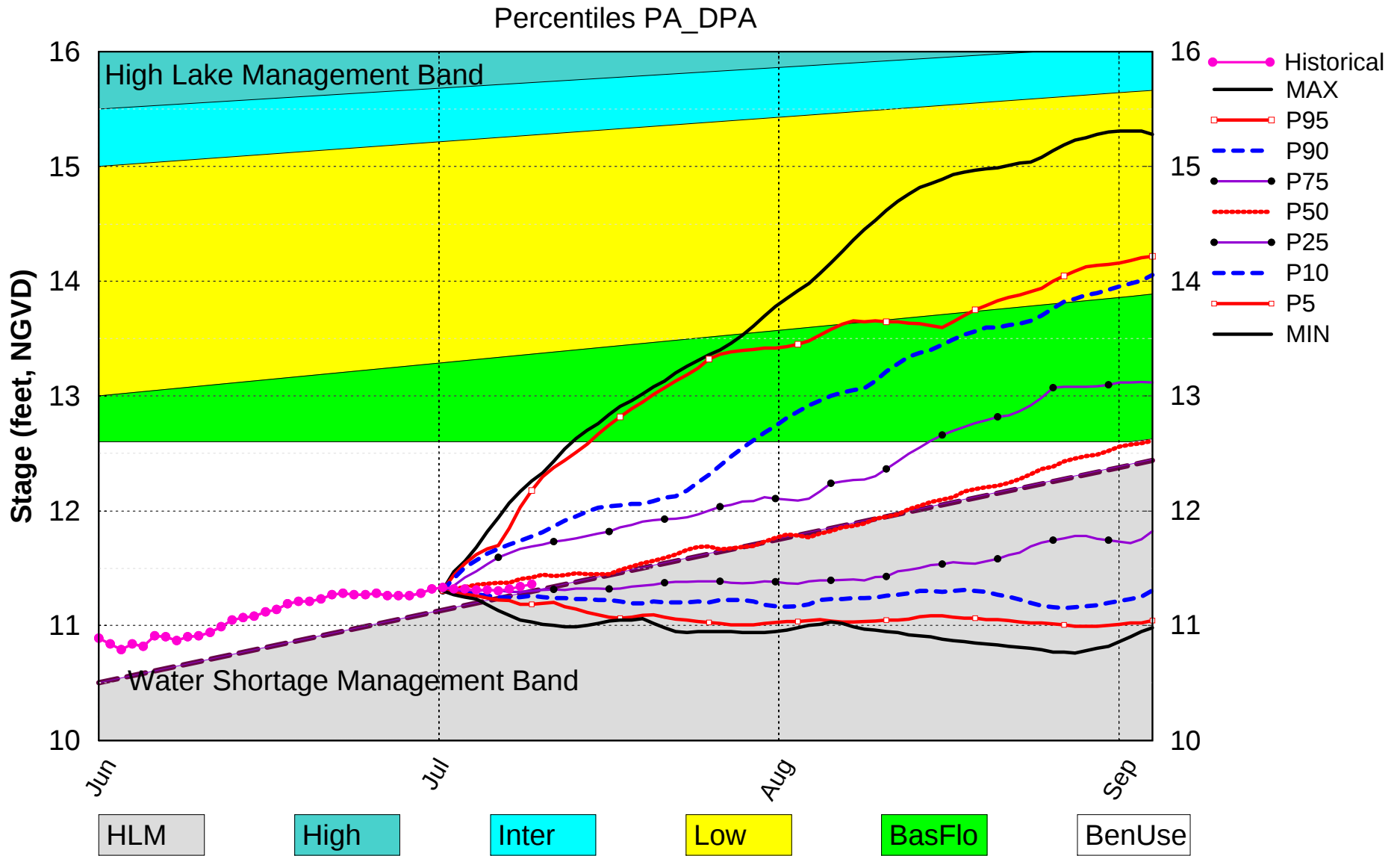
https://origin.cpc.ncep.noaa.gov/products/analysis_monitoring/ensostuff/ONI_v5.php

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](#).

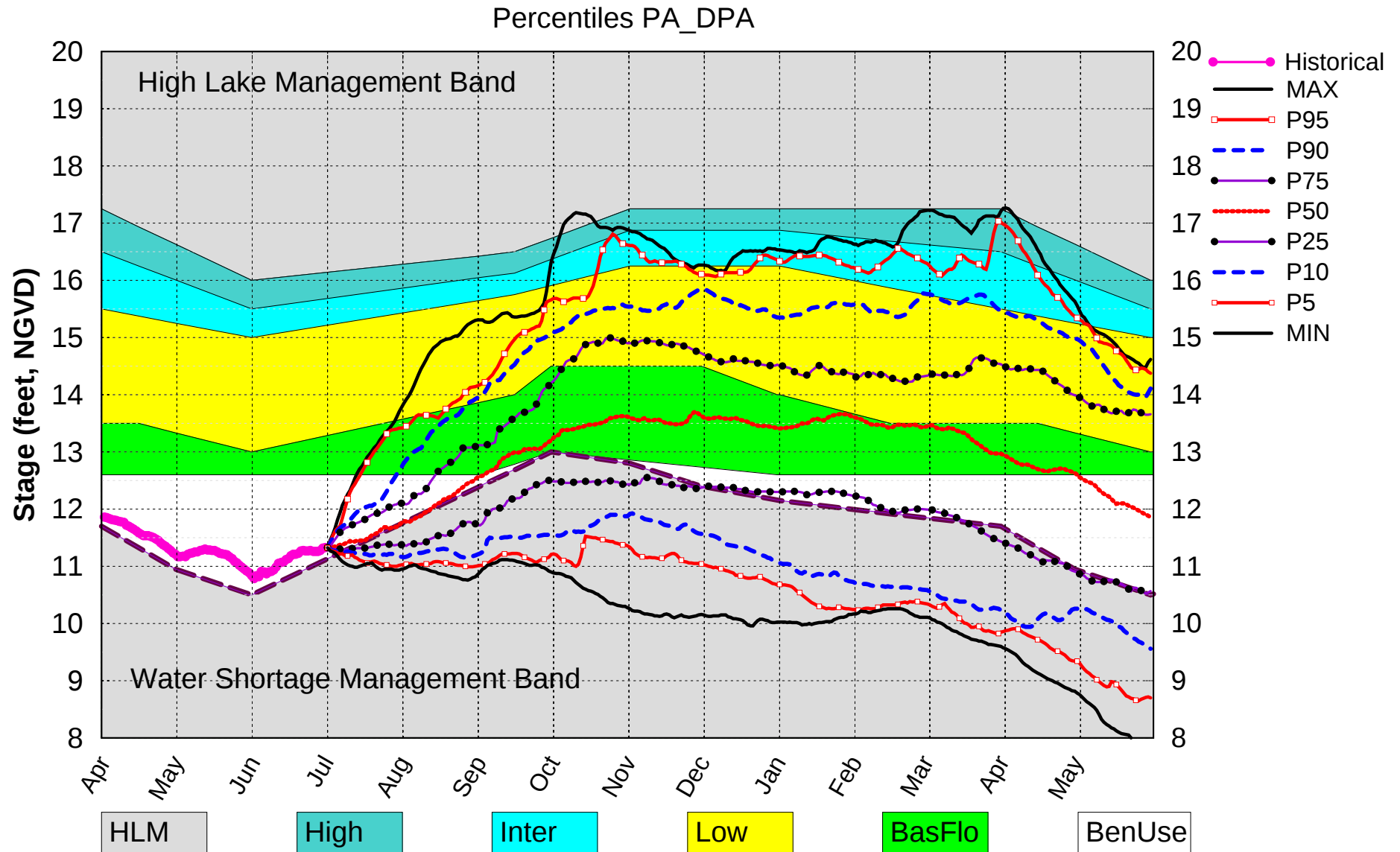
[Back to Operational Planning Main Page](#)

Lake Okeechobee SFWMM July 2019 Position Analysis



(See assumptions on the Position Analysis Results website)

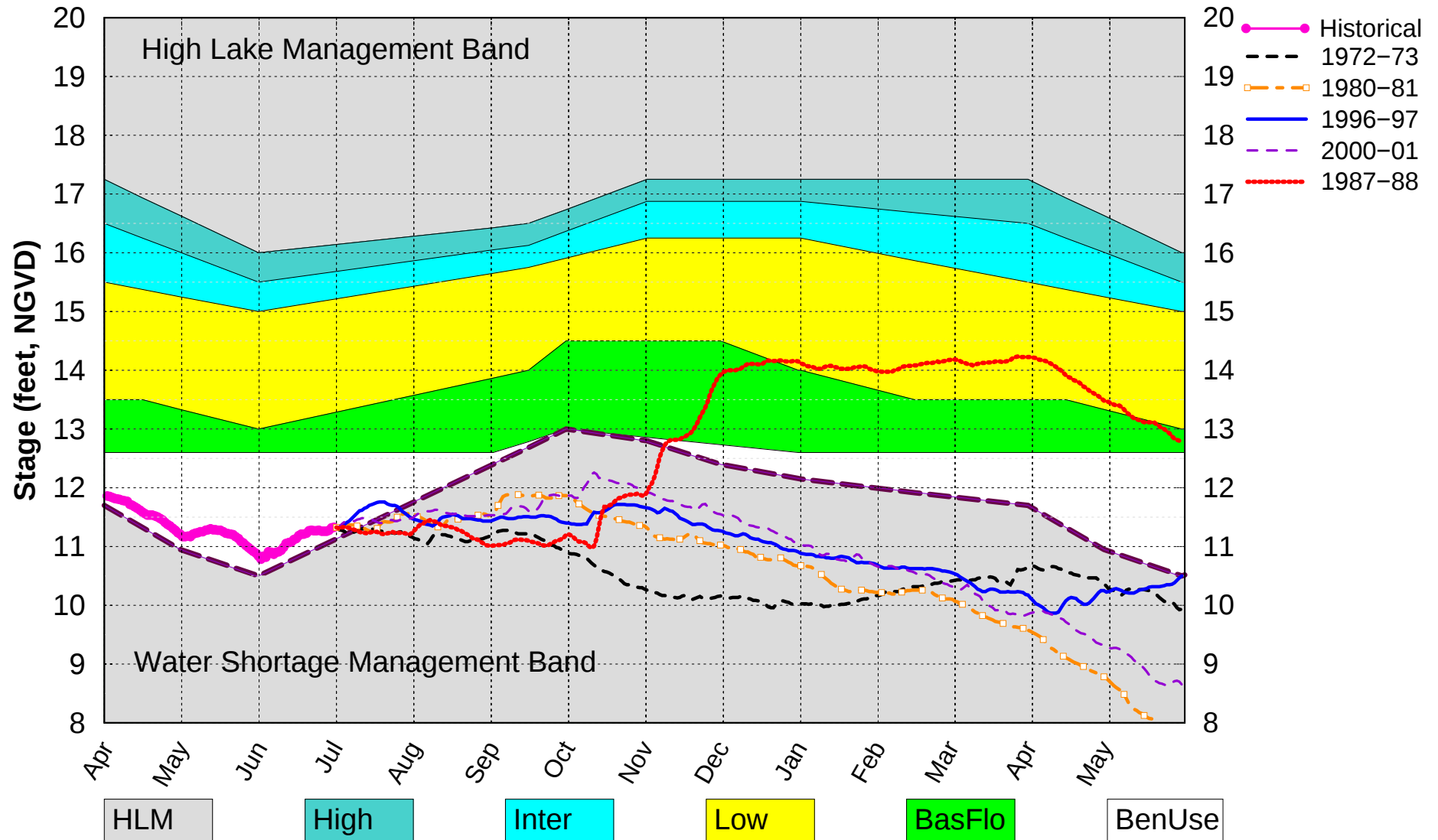
Lake Okeechobee SFWMM July 2019 Position Analysis



(See assumptions on the Position Analysis Results website)

Lake Okeechobee SFWMM July 2019 Position Analysis

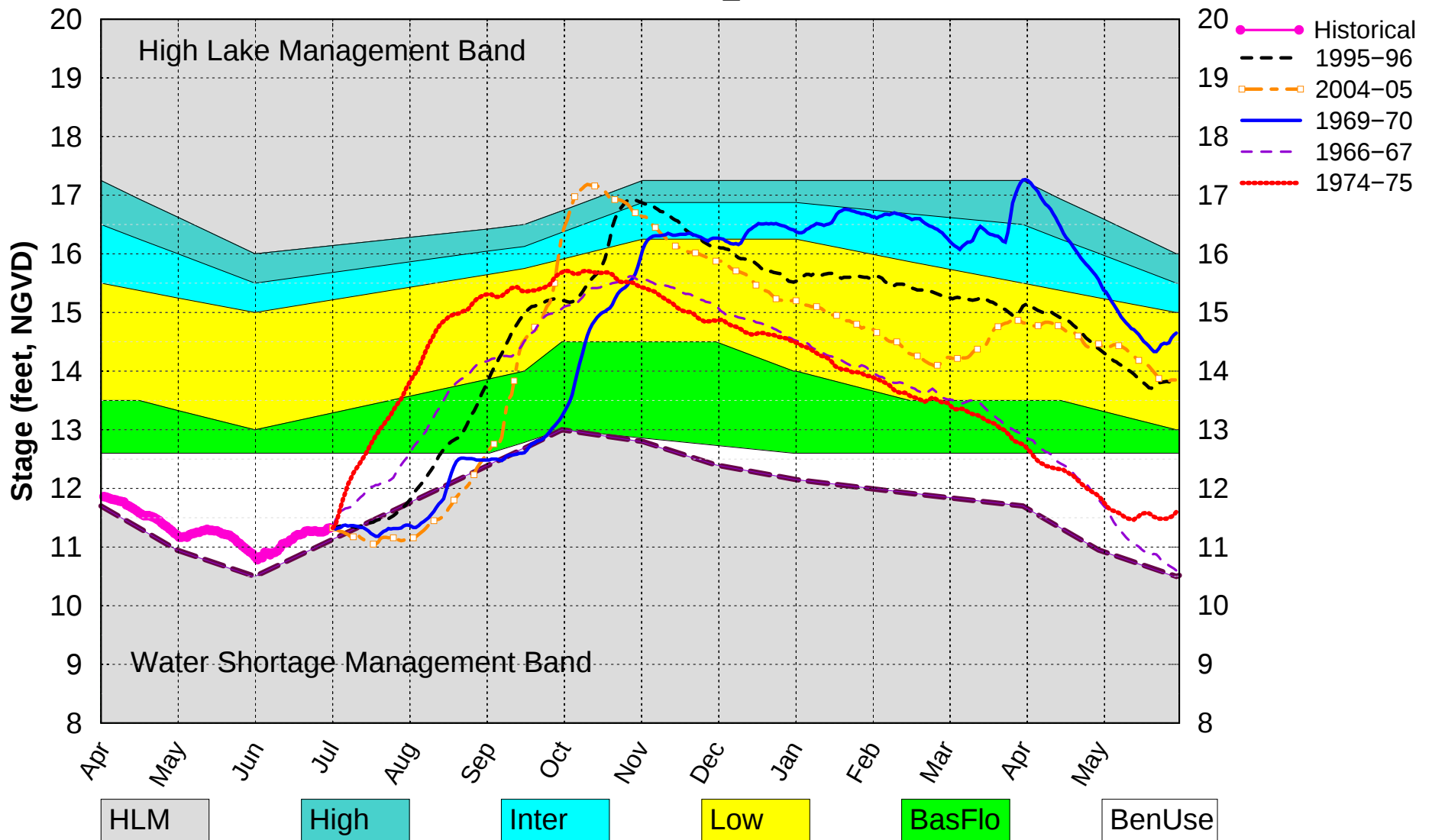
Dry Years Plot PA_DPA



(See assumptions on the Position Analysis Results website)

Lake Okeechobee SFWMM July 2019 Position Analysis

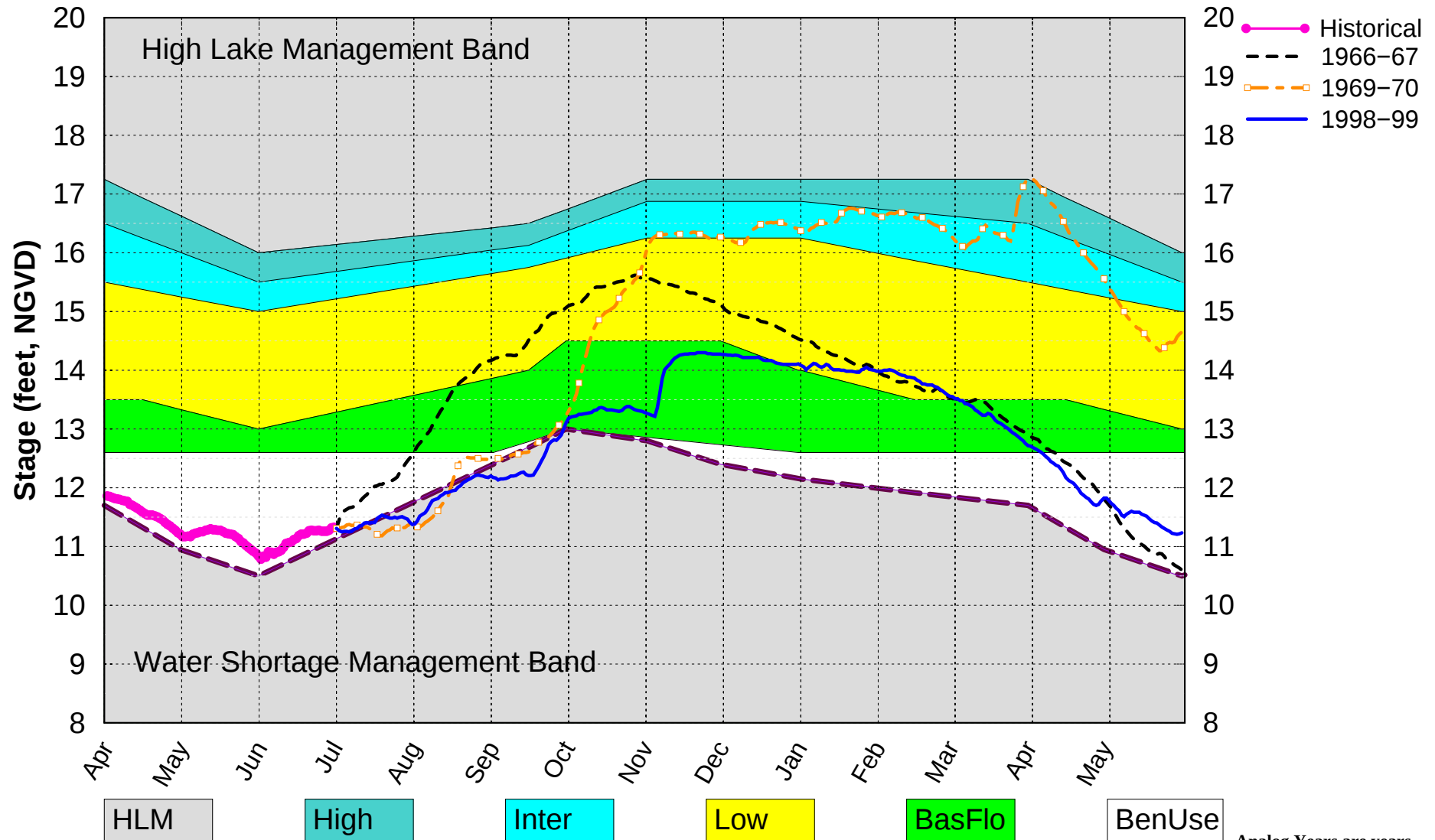
Wet Years Plot PA_DPA



(See assumptions on the Position Analysis Results website)

Lake Okeechobee SFWMM June 2019 Position Analysis

AMO Warm / El Nino Analog Years Plot PA_STAT4

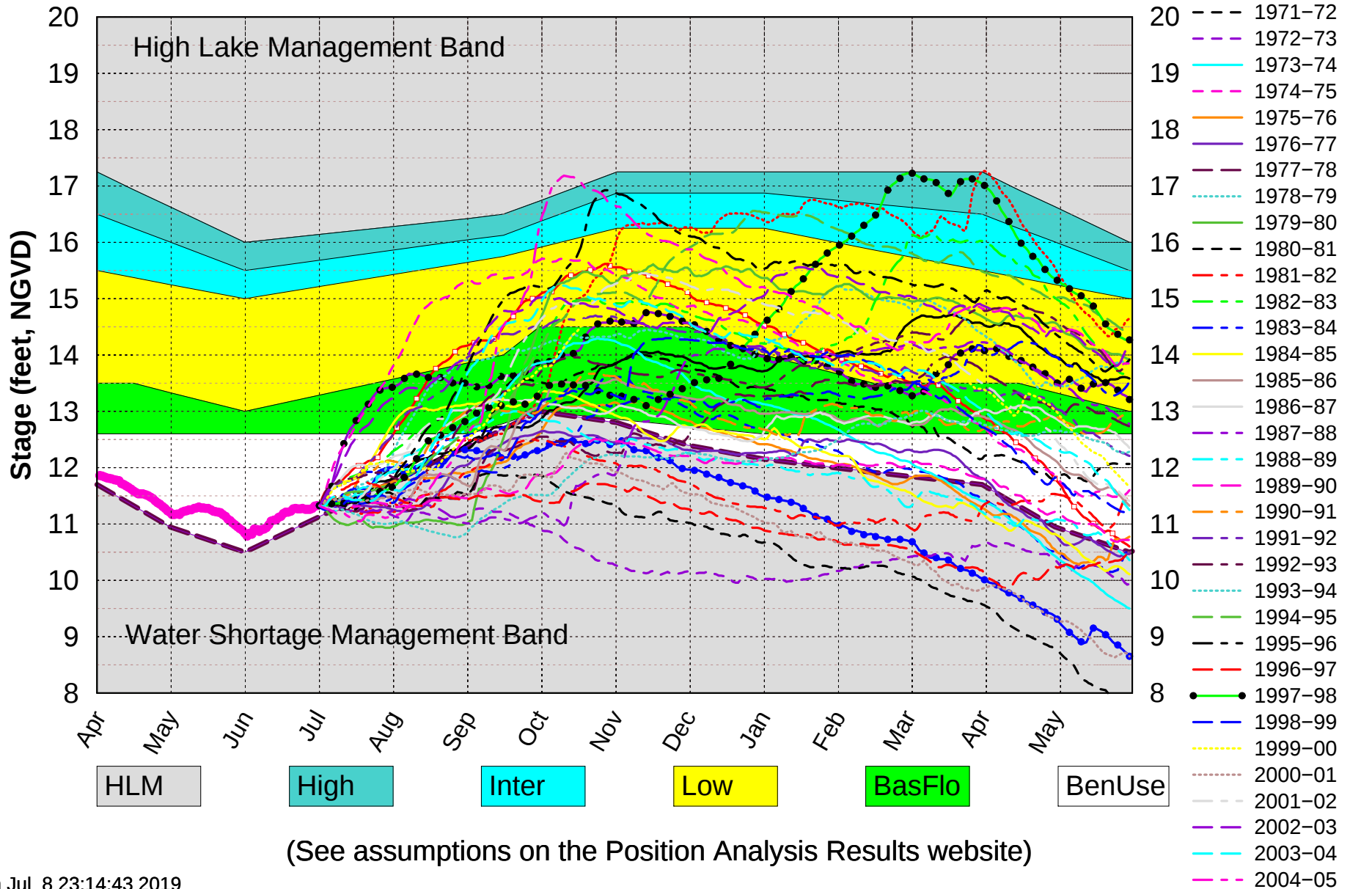


(See assumptions on the Position Analysis Results website)

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

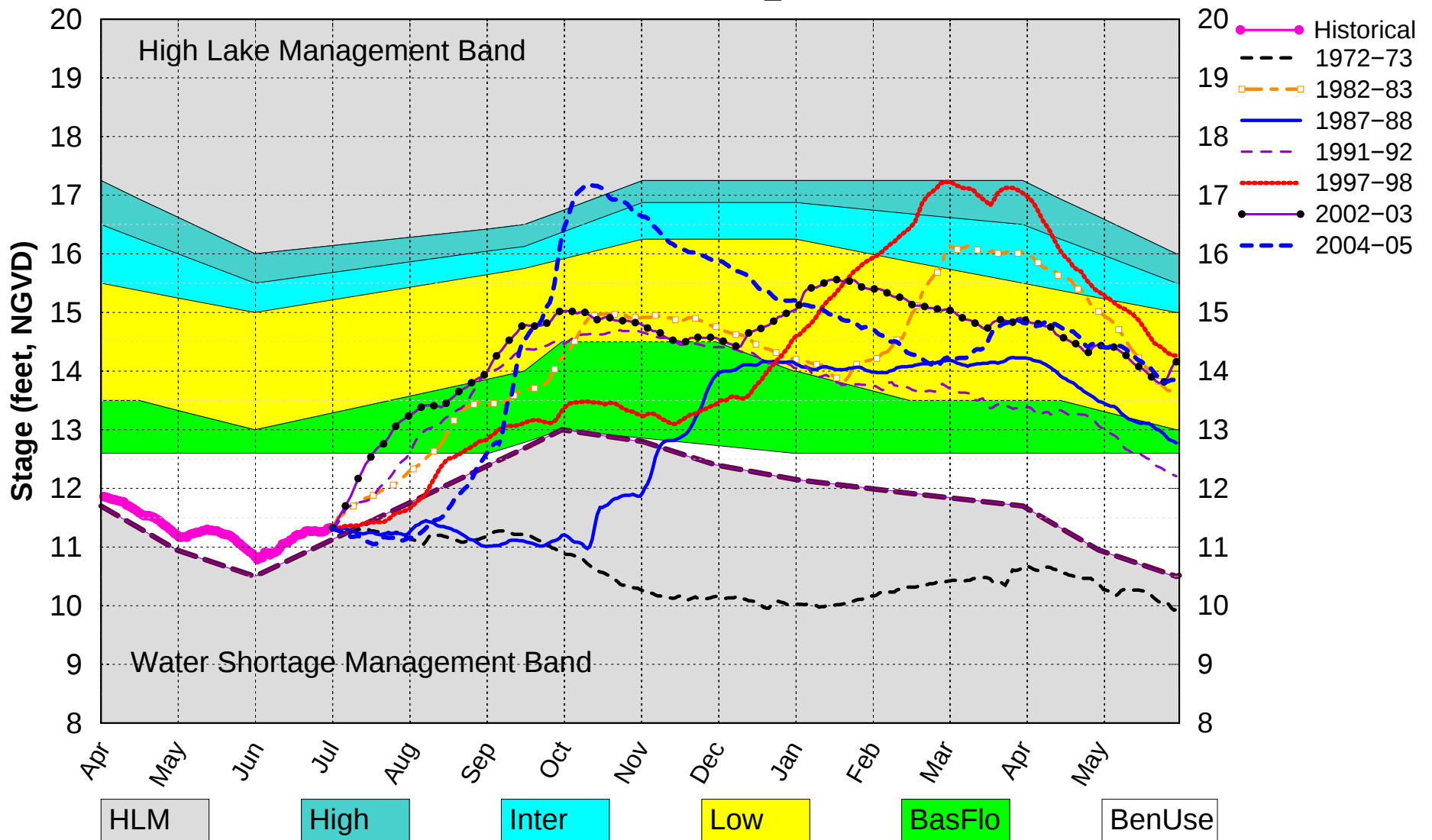
Lake Okeechobee SFWMM July 2019 Position Analysis

All Simulated Years Plot PA_DPA



Lake Okeechobee SFWMM July 2019 Position Analysis

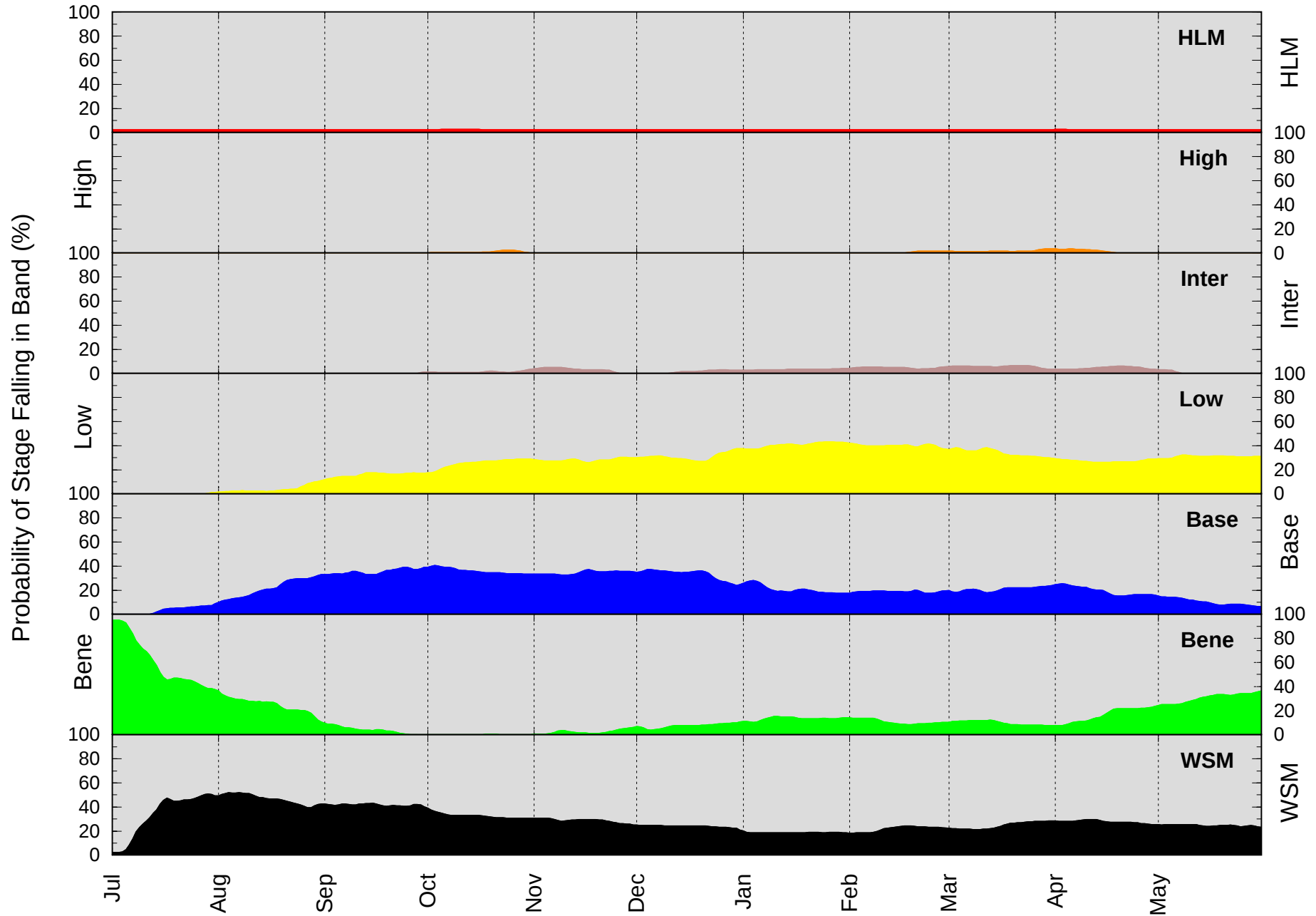
All El Nino Years Plot PA_DPA



(See assumptions on the Position Analysis Results website)

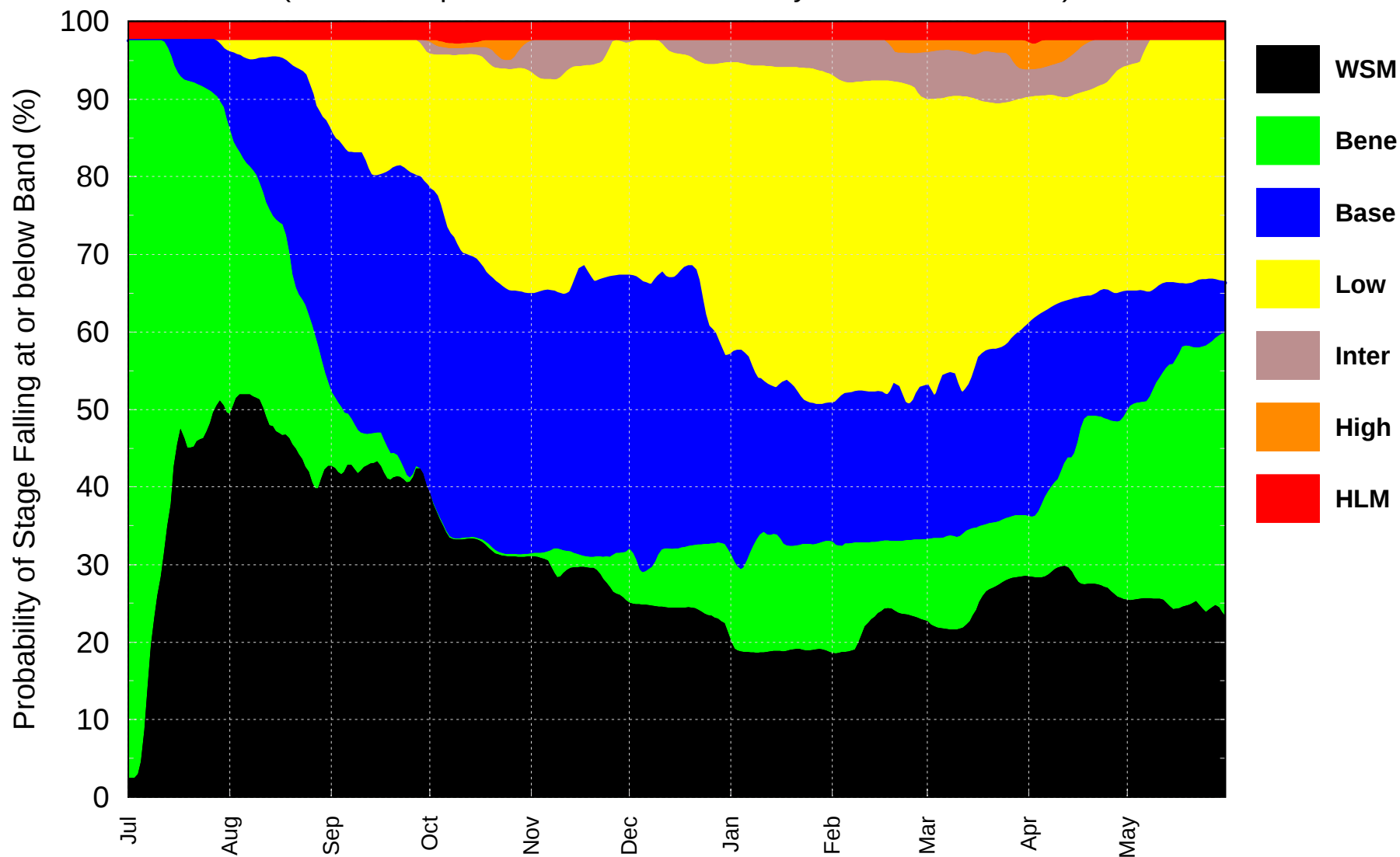
Lake Okeechobee – Band Probabilities

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



Lake Okeechobee – Probabilities for Operational Bands

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



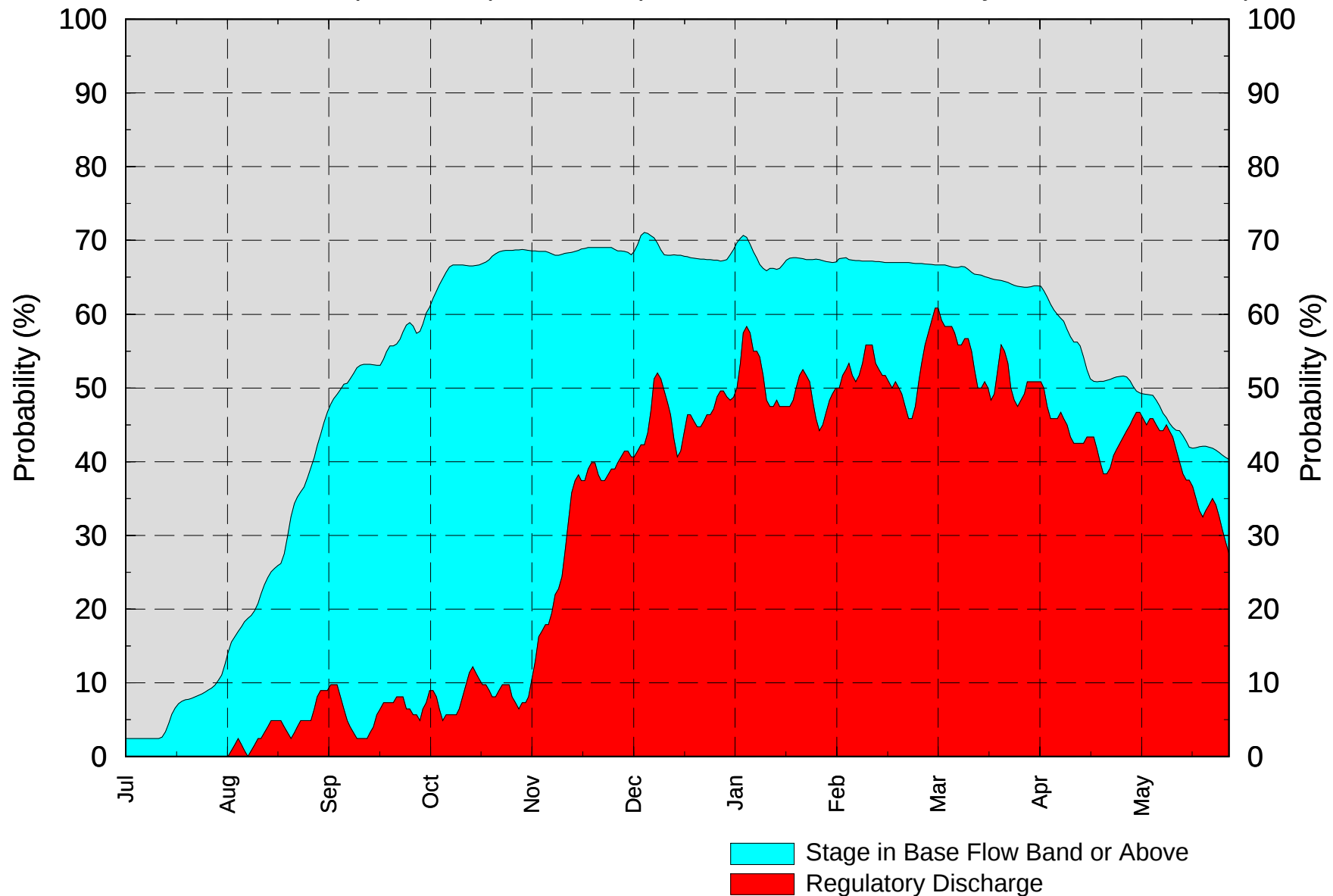
The width for each band gives the probability of stage falling in that band, as defined by the operational schedules.

Lake Okechobee Band Probabilities (%) at the Beginning of Each Month
 '(See assumptions on the Position Analysis Results website)'
 Initial Stage 10.80 ft. for 06/01/2019

Date	HLM	High	Inter	Low	Base	Bene	WSM
2019 06 01	2.4	0.0	0.0	0.0	0.0	95.1	2.4
2019 07 01	2.4	0.0	0.0	0.0	0.0	95.1	2.4
2019 08 01	2.4	0.0	0.0	1.6	10.0	36.6	49.3
2019 09 01	2.4	0.0	0.0	12.1	33.3	9.5	42.7
2019 10 01	2.4	0.3	1.5	17.5	39.3	-0.1	39.1
2019 11 01	2.4	0.1	4.0	28.6	33.4	0.4	31.0
2019 12 01	2.4	-0.0	0.3	30.1	35.2	6.9	25.1
2020 01 01	2.4	-0.0	2.8	37.8	25.8	11.1	20.1
2020 02 01	2.4	-0.0	4.5	42.3	17.8	14.4	18.5
2020 03 01	2.4	1.6	6.0	36.9	19.7	10.6	22.6
2020 04 01	2.7	3.5	3.6	29.3	24.7	7.7	28.4
2020 05 01	2.4	0.0	3.3	29.2	15.3	24.3	25.4

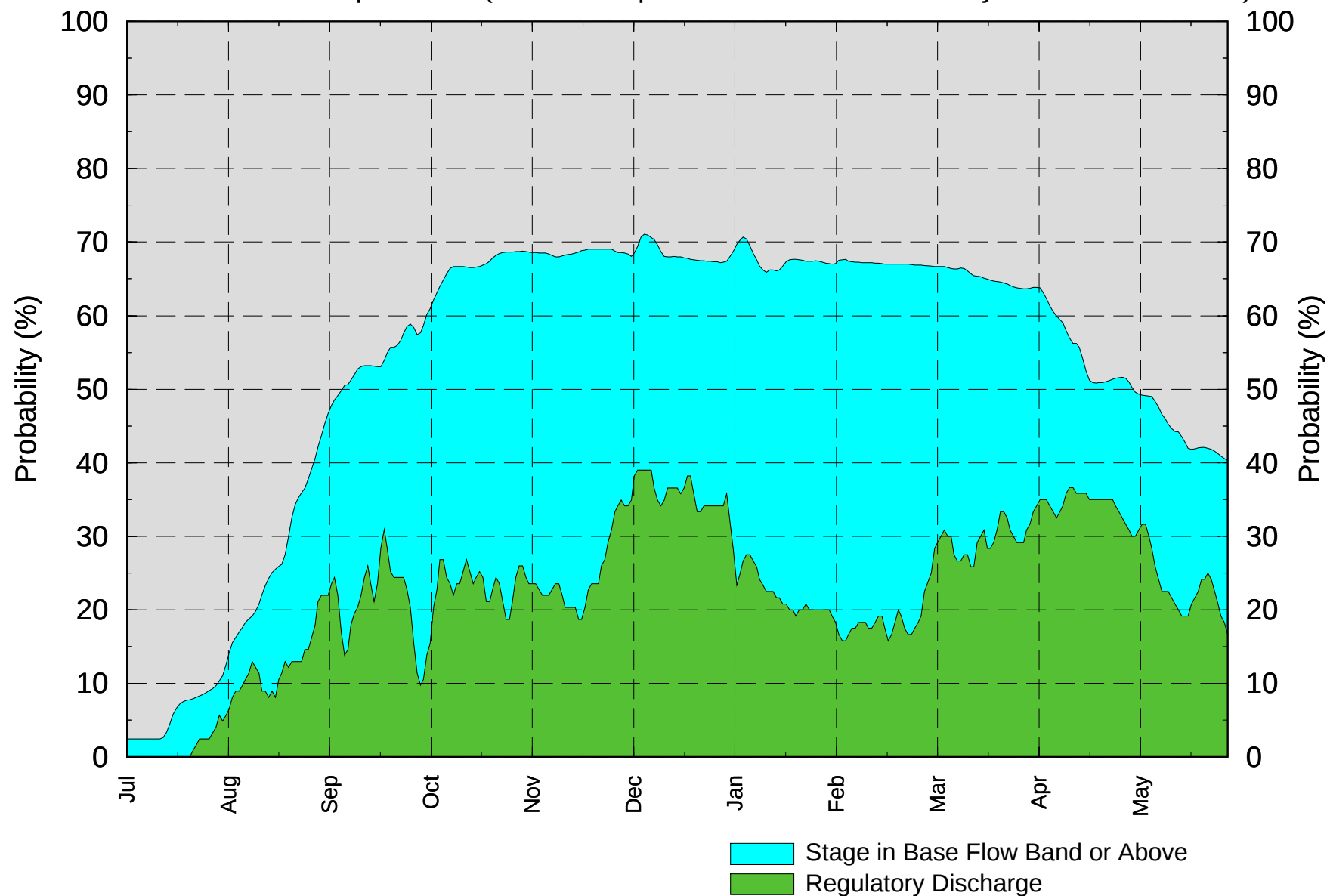
Lake Okeechobee – LORS2008 Releases to the Estuaries

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



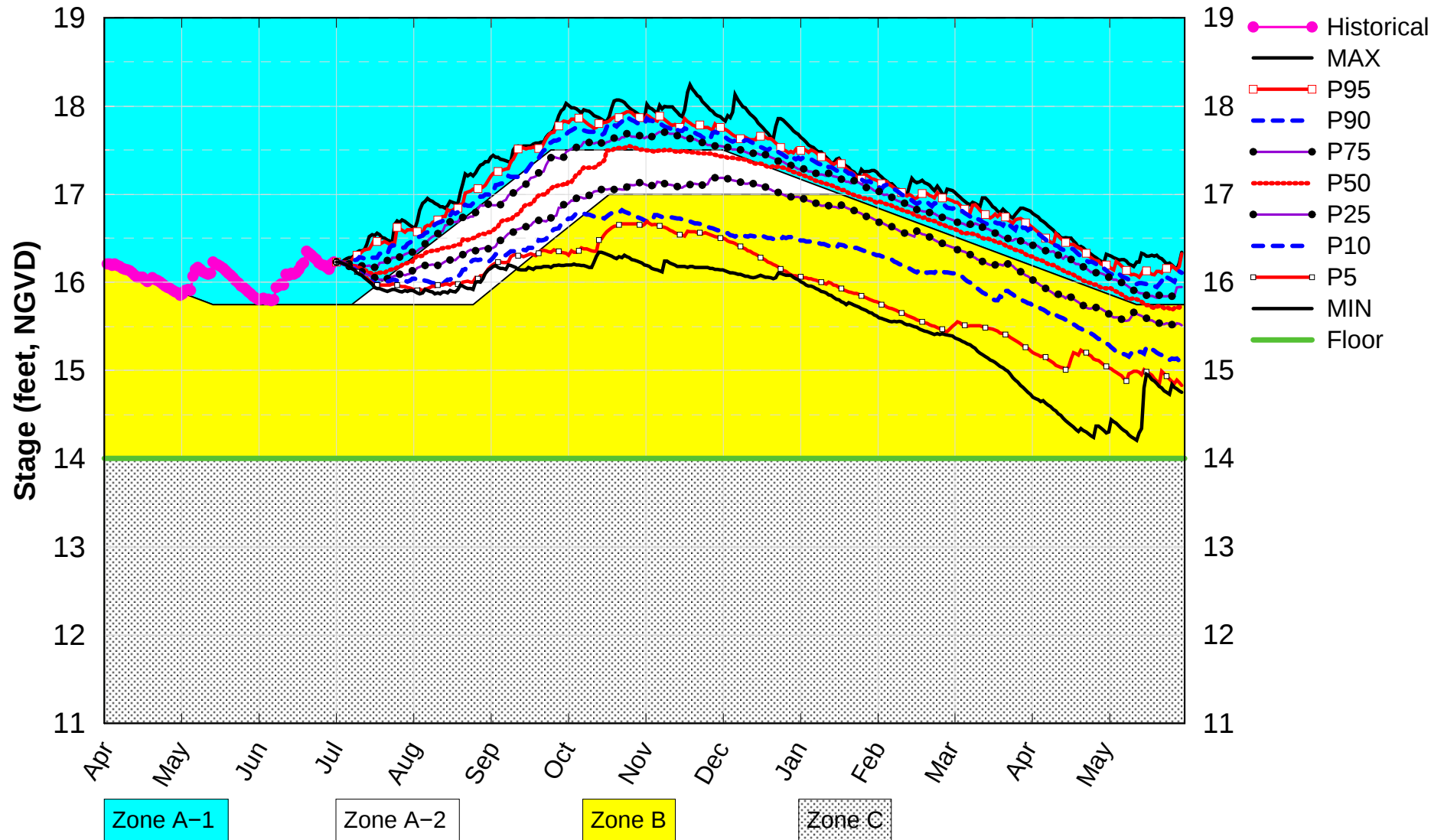
Lake Okeechobee – LORS2008 Releases to the WCA's

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



WCA1 SFWMM July 2019 Position Analysis

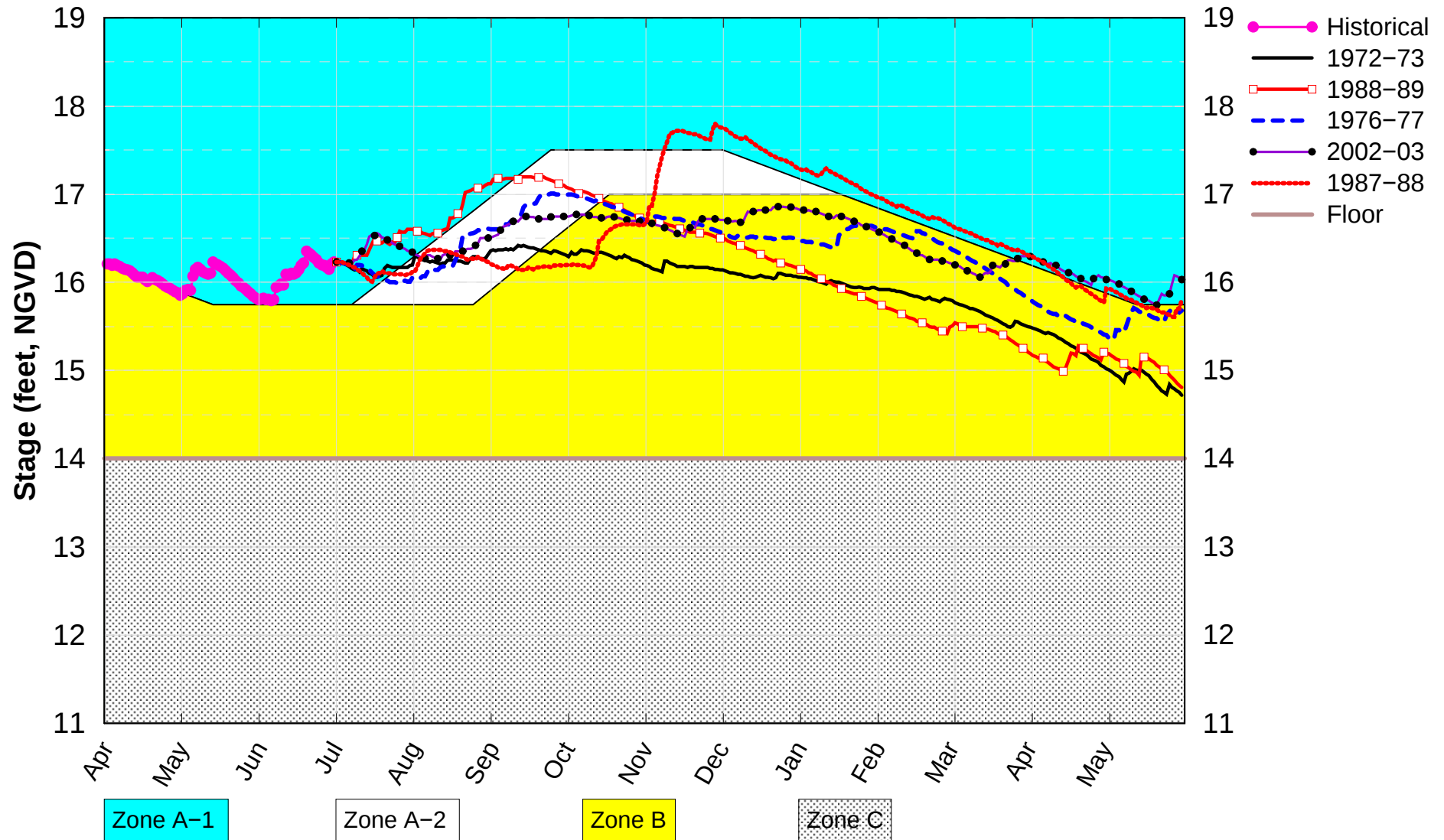
Percentiles PA_DPA



(See assumptions on the Position Analysis Results website)

WCA1 SFWMM July 2019 Position Analysis

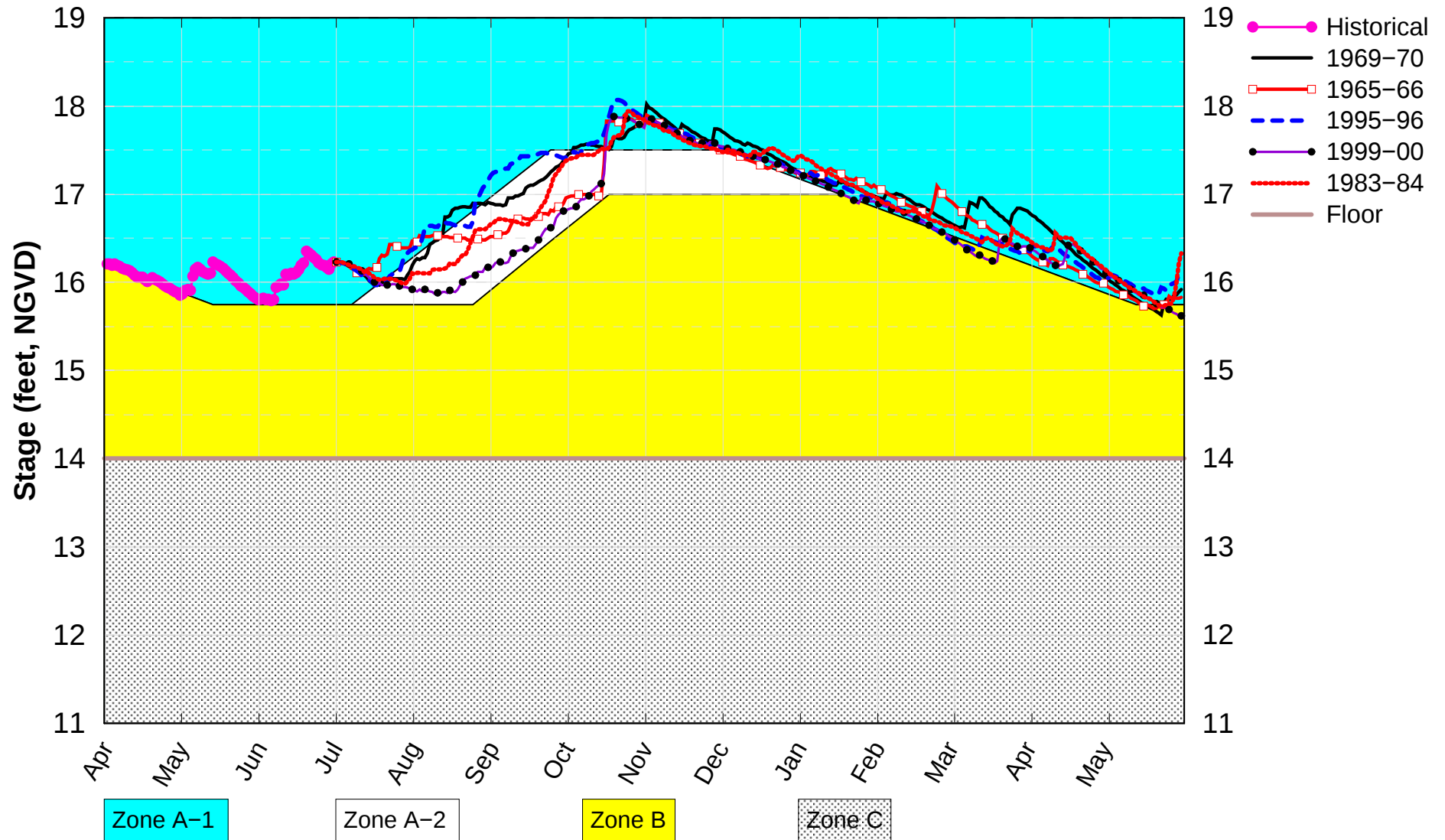
Dry Years Plot PA_DPA



(See assumptions on the Position Analysis Results website)

WCA1 SFWMM July 2019 Position Analysis

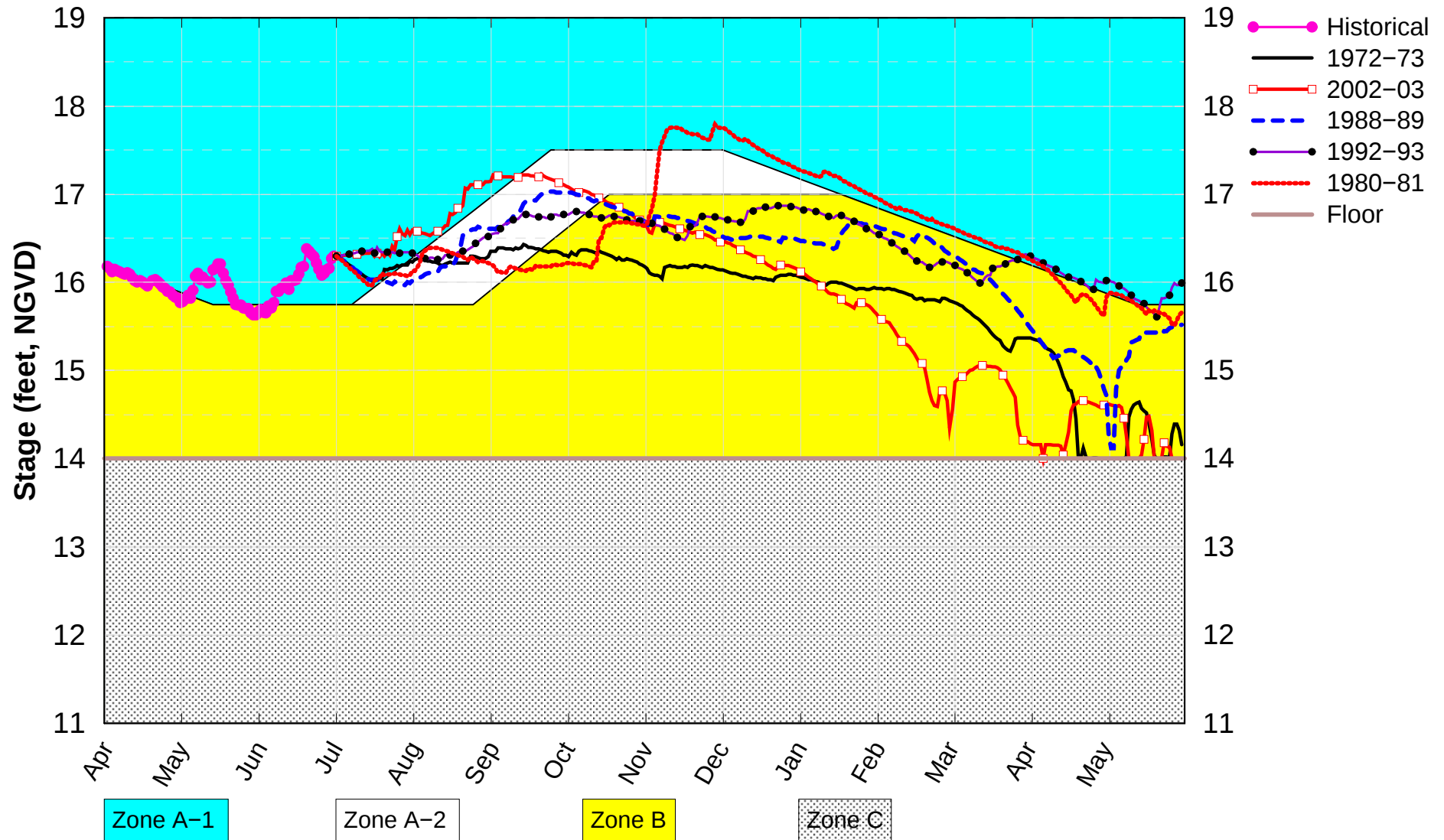
Wet Years Plot PA_DPA



(See assumptions on the Position Analysis Results website)

CA1 Canal SFWMM July 2019 Position Analysis

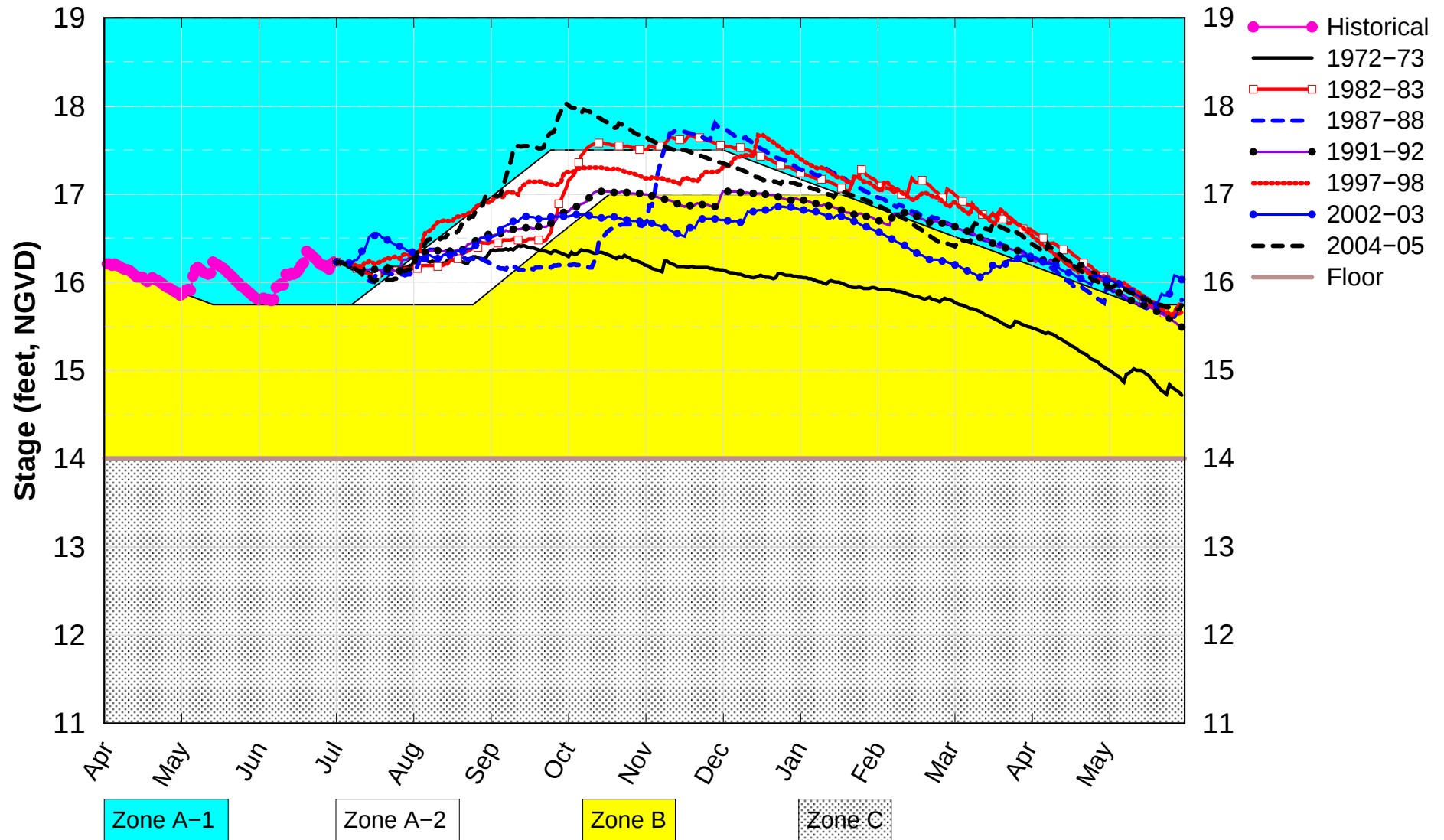
PA_DPA Dry Years Plot



(See assumptions on the Position Analysis Results website)

WCA1 SFWMM July 2019 Position Analysis

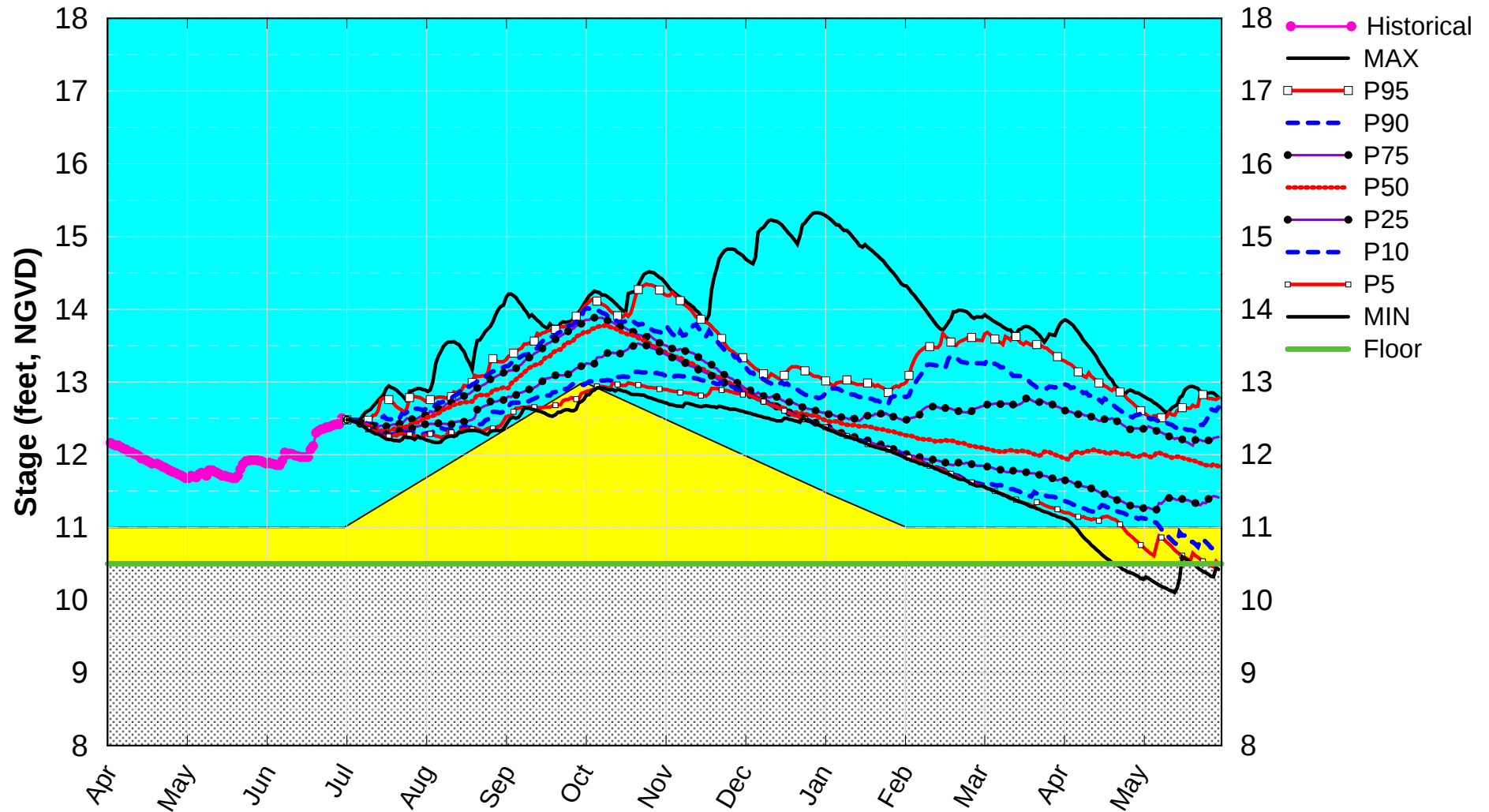
All El Nino Years Plot PA_DPA



(See assumptions on the Position Analysis Results website)

WCA2A SFWMM July 2019 Position Analysis

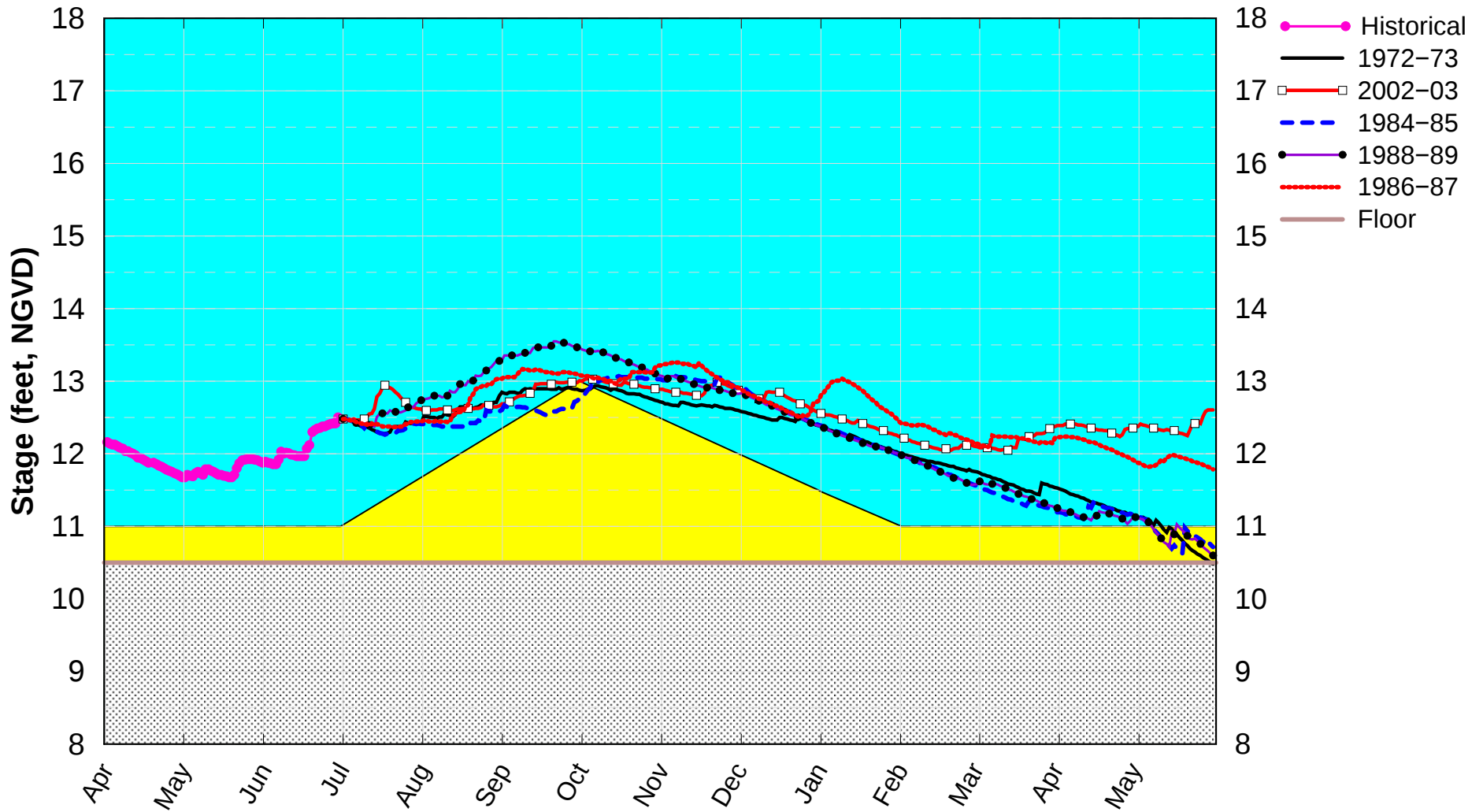
Percentiles PA_DPA



(See assumptions on the Position Analysis Results website)

WCA2A SFWMM July 2019 Position Analysis

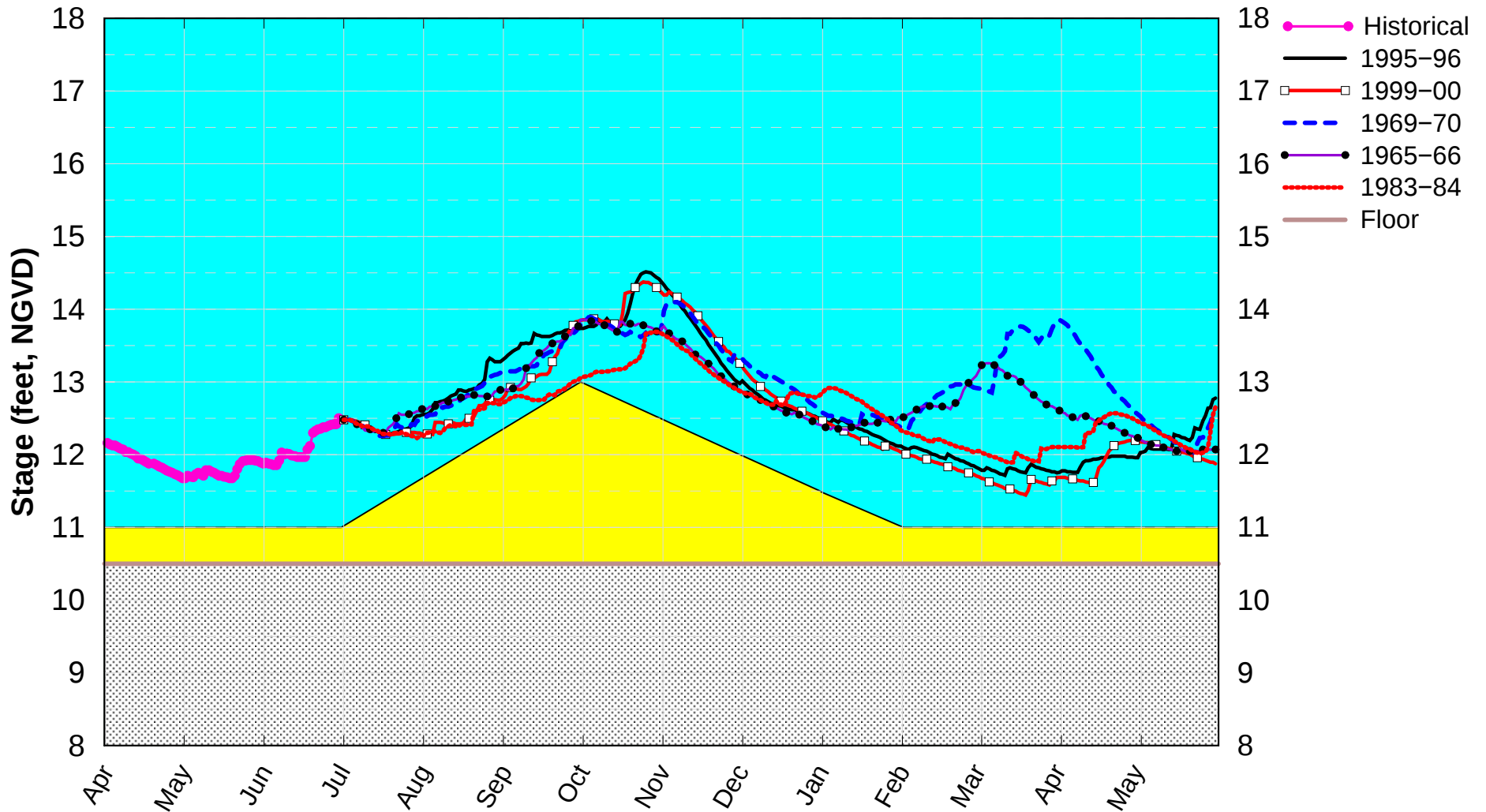
Dry Years Plot PA_DPA



(See assumptions on the Position Analysis Results website)

WCA2A SFWMM July 2019 Position Analysis

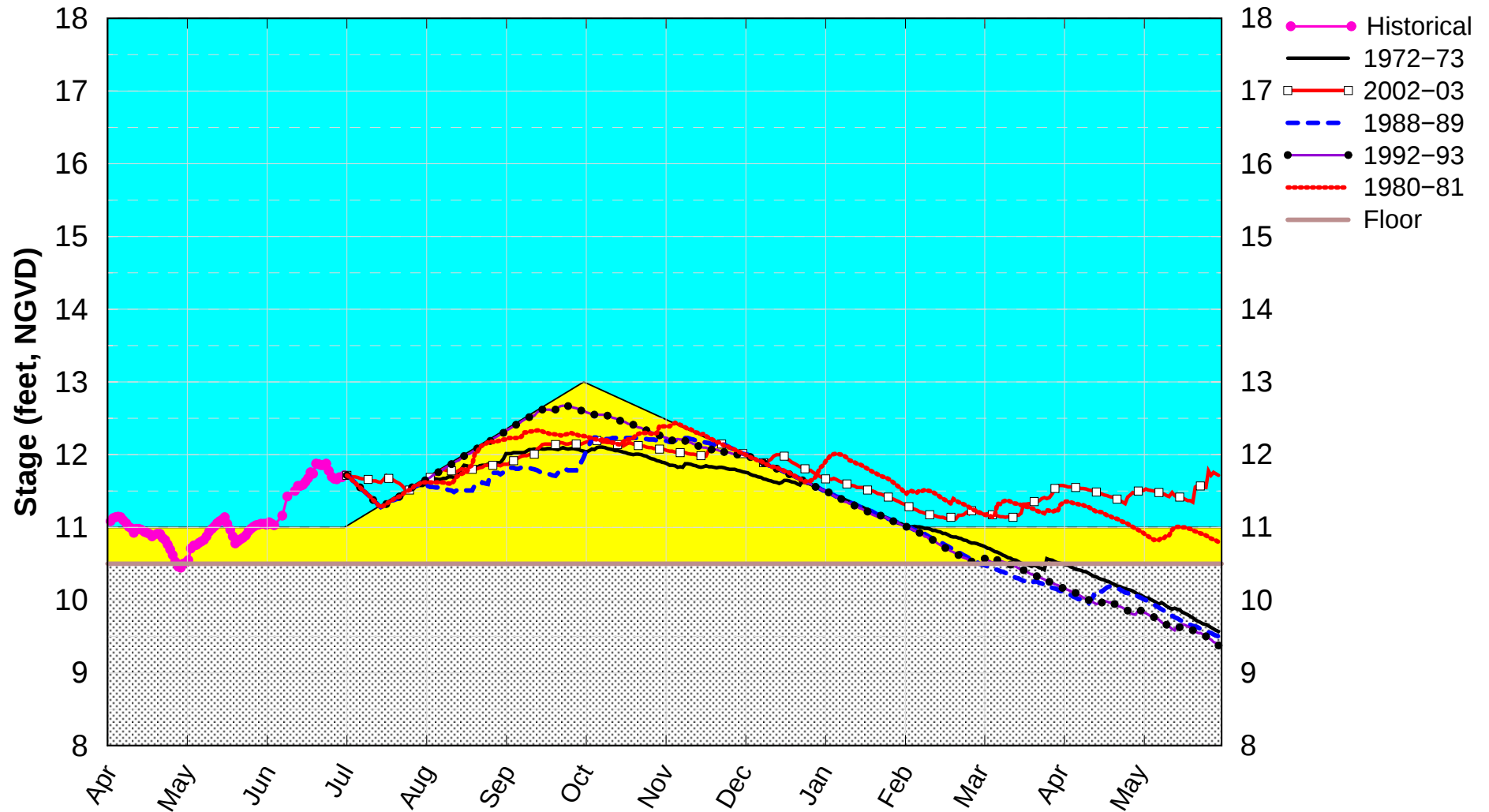
Wet Years Plot PA_DPA



(See assumptions on the Position Analysis Results website)

L38 Canal SFWMM July 2019 Position Analysis

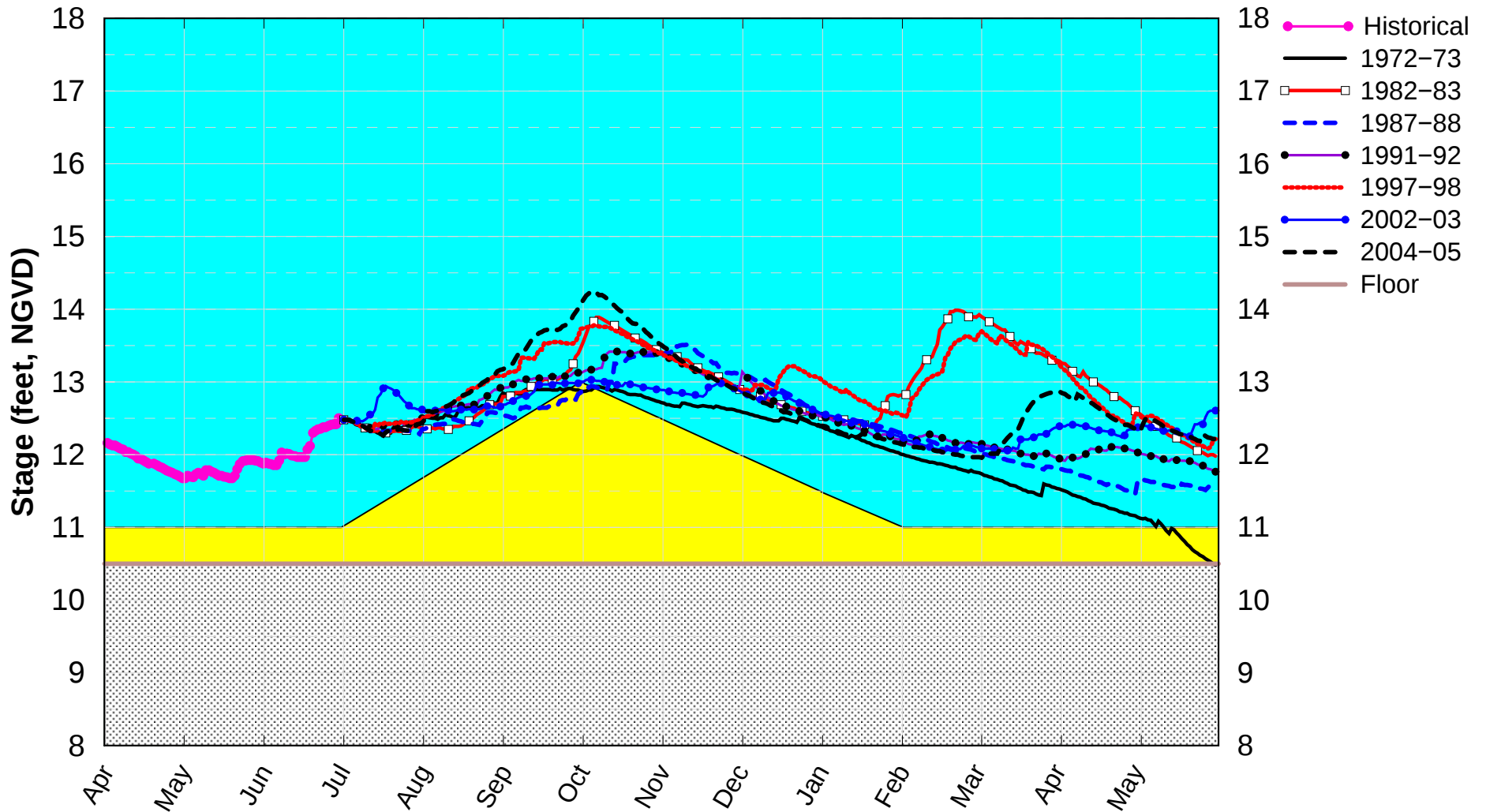
PA_DPA Dry Years Plot



(See assumptions on the Position Analysis Results website)

WCA2A SFWMM July 2019 Position Analysis

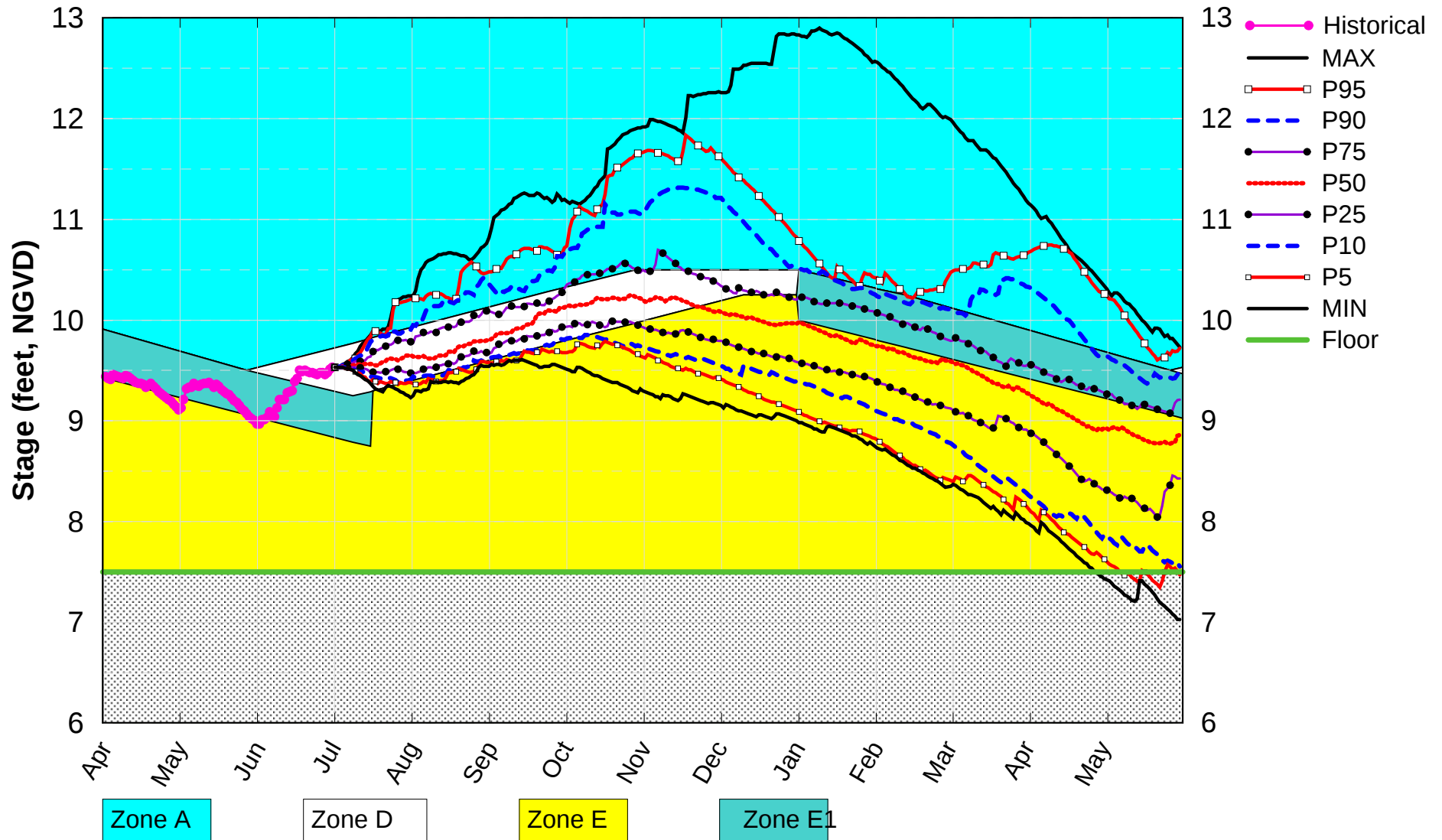
All El Nino Years Plot PA_DPA



(See assumptions on the Position Analysis Results website)

WCA3A SFWMM July 2019 Position Analysis

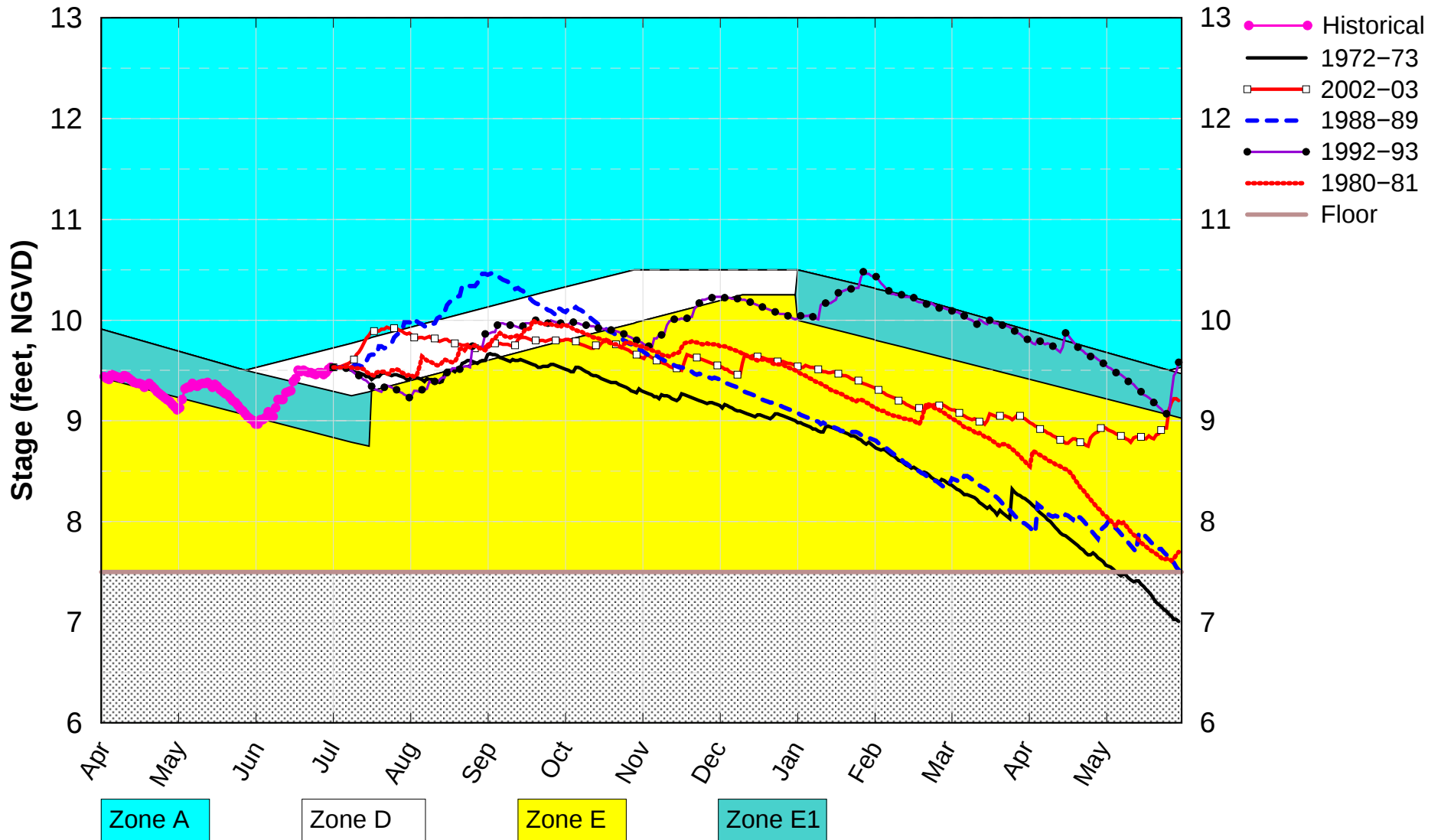
Percentiles PA_DPA



(See assumptions on the Position Analysis Results website)

WCA3A SFWMM July 2019 Position Analysis

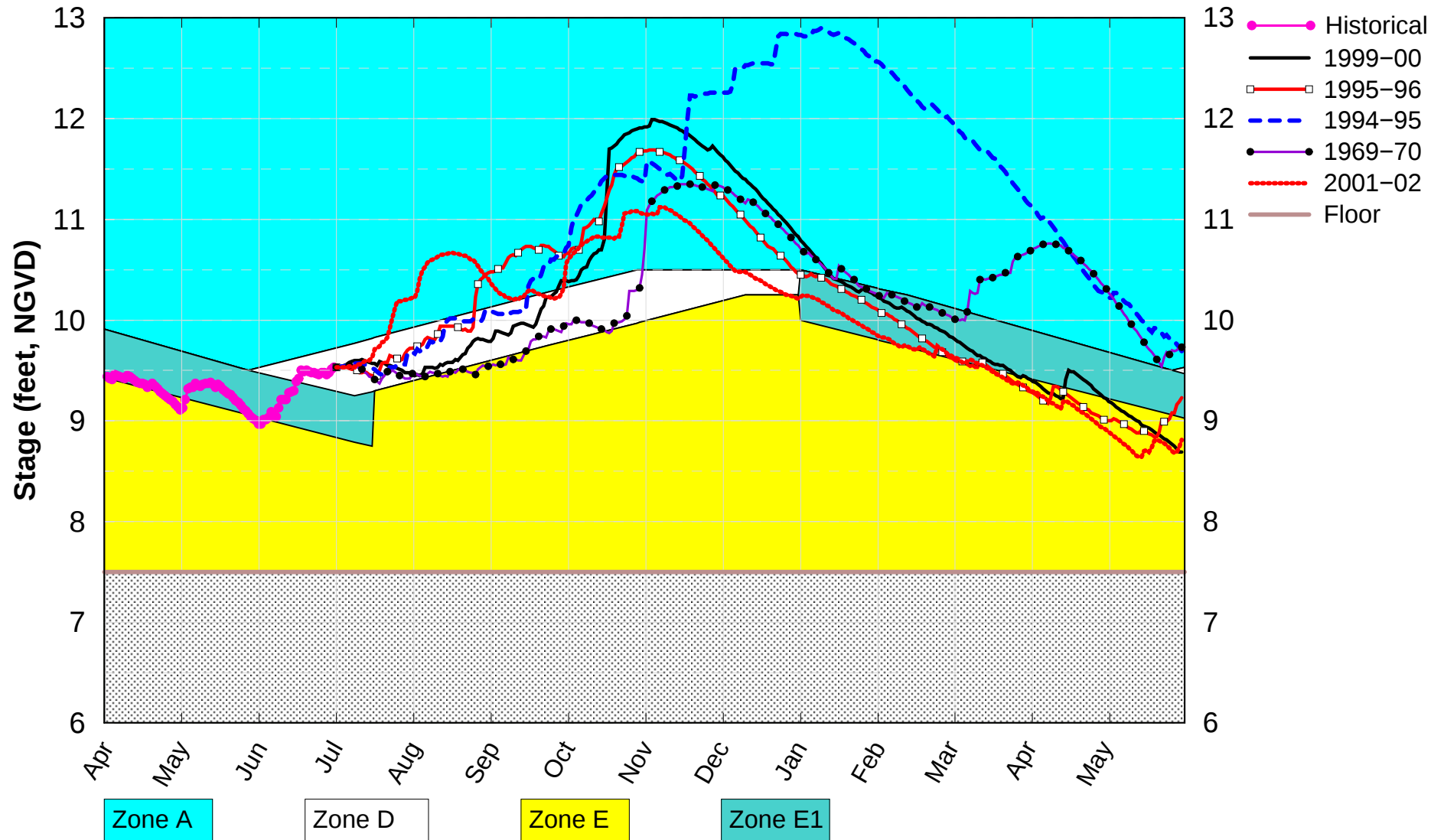
Dry Years Plot PA_DPA



(See assumptions on the Position Analysis Results website)

WCA3A SFWMM July 2019 Position Analysis

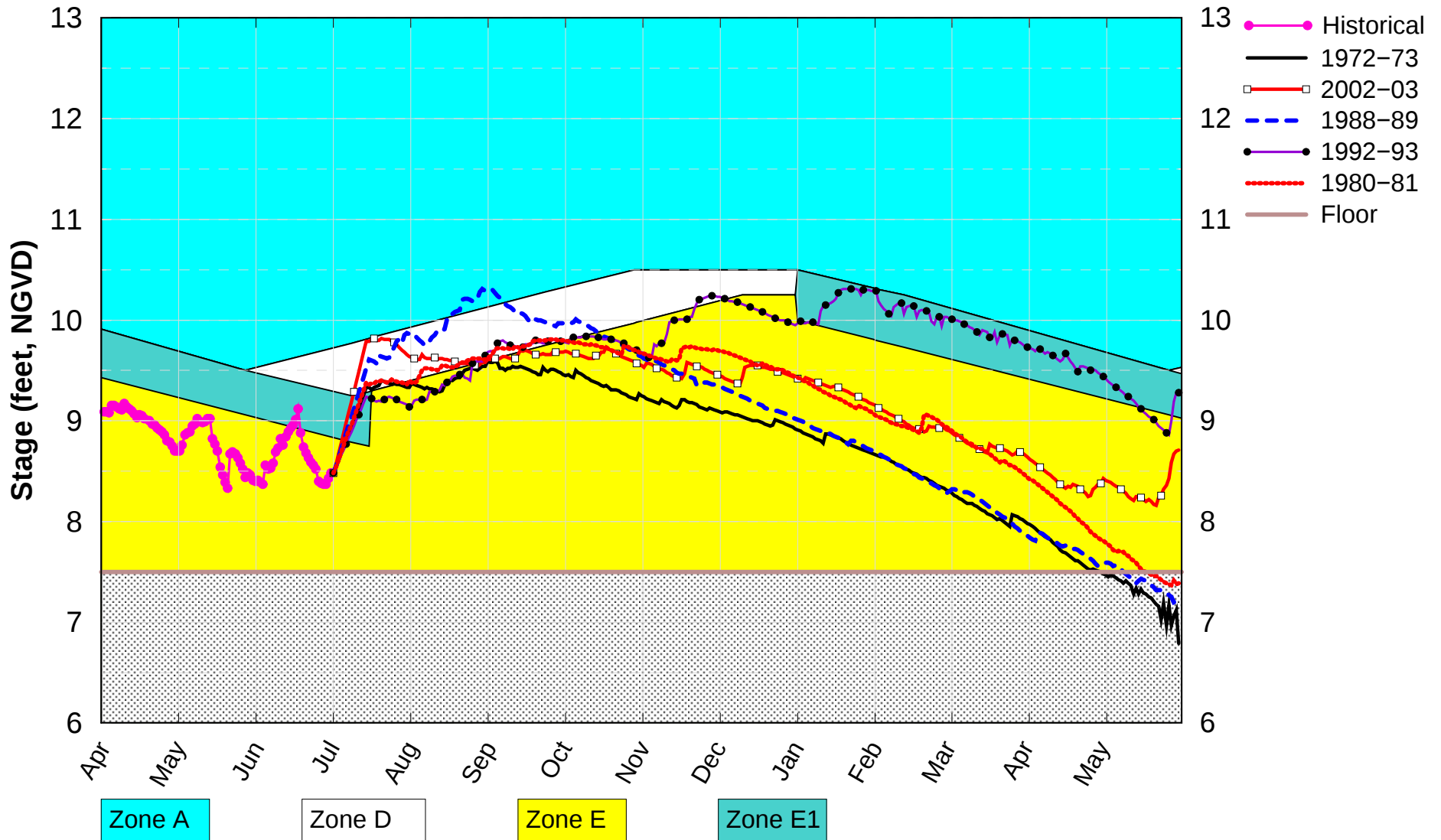
Wet Years Plot PA_DPA



(See assumptions on the Position Analysis Results website)

CA3 Canal SFWMM July 2019 Position Analysis

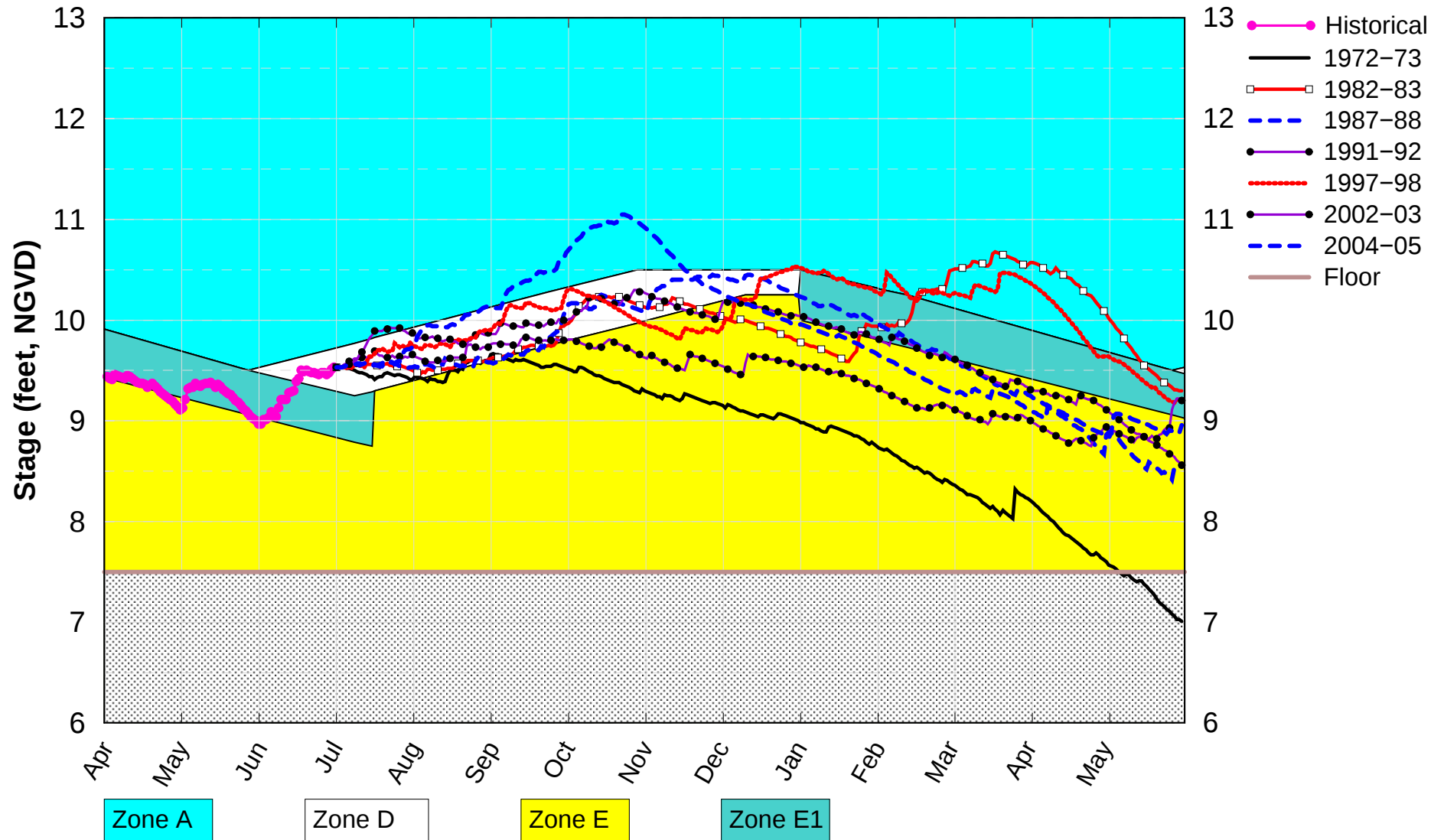
PA_DPA Dry Years Plot



(See assumptions on the Position Analysis Results website)

WCA3A SFWMM July 2019 Position Analysis

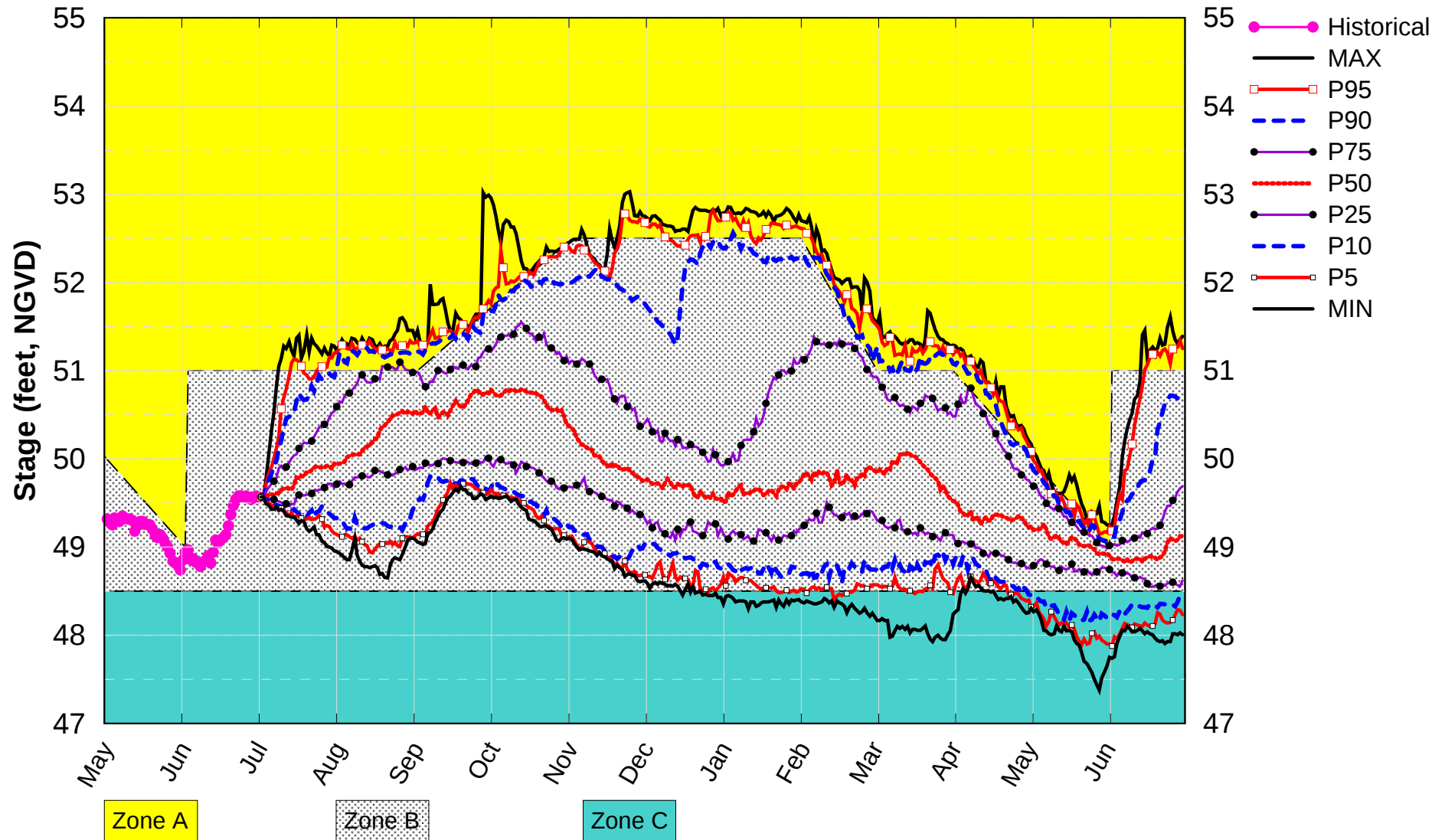
All El Nino Years Plot PA_DPA



(See assumptions on the Position Analysis Results website)

S65 UK-OPS Jul 1 2019 Position Analysis

UK-OPS_DPA Unconditional PA



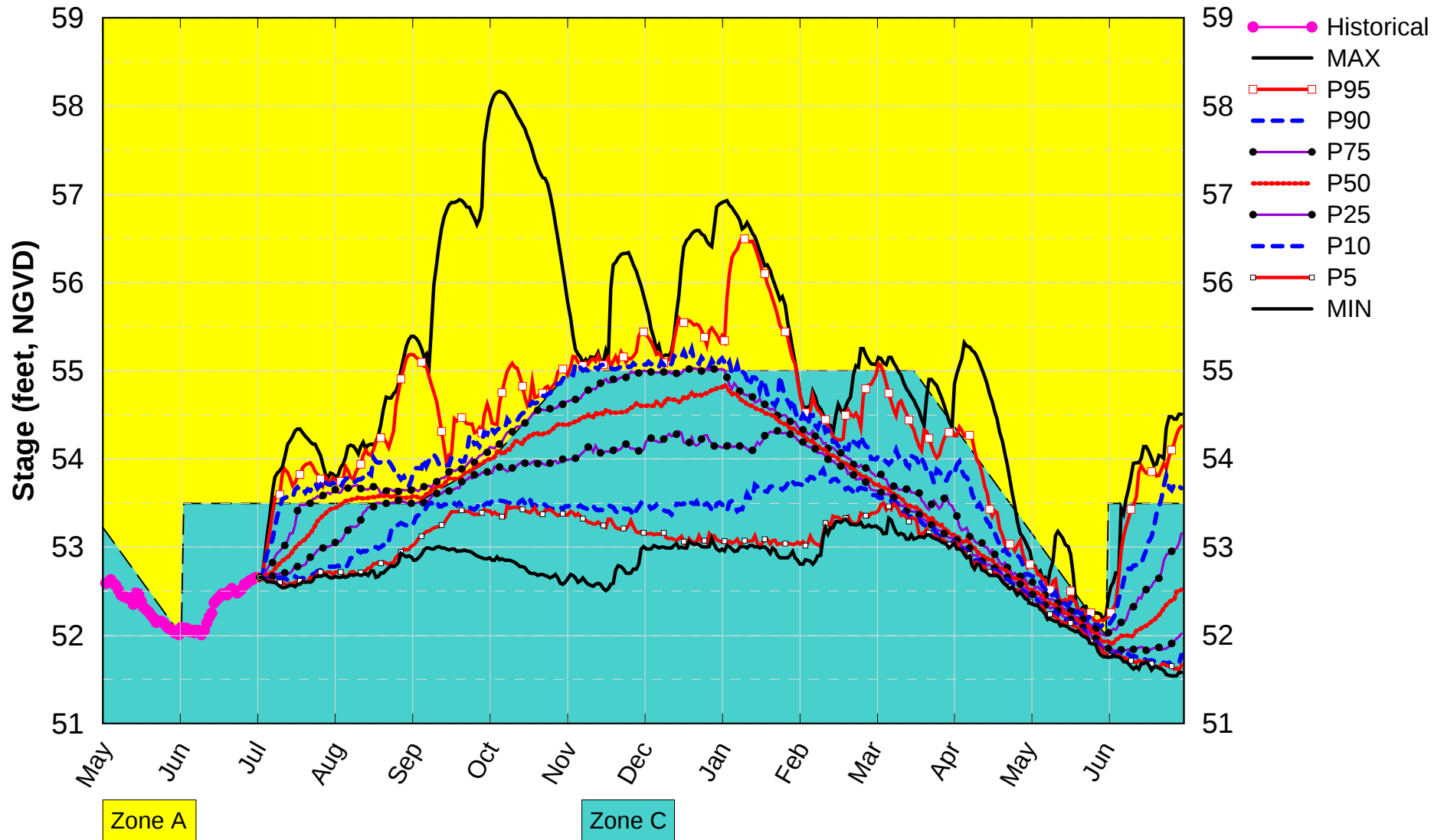
(See assumptions on the Position Analysis Results website)

Tue Jul 9 02:26:53 2019

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

S61 UK-OPS Jul 1 2019 Position Analysis

UK-OPS_DPA Unconditional PA



(See assumptions on the Position Analysis Results website)

Tue Jul 9 02:28:23 2019

* 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 stage(ft)	:Canal Name	:SFWMM Name	:Location	:SFWMD sensor
WPB	:C-18	:C18	:G92-H	: 13.61
WPB	:C-17	:C17	:S44-H	: 7.14
WPB	:C-51W	:C51W	:S5AE-T	: 10.41
WPB	:C-51	:C51	:S155-H	: 8.03
WCA	:WCA-1 L-40	:CA1	:1-8C	: 16.30
FTLD	:Hillsboro Canal	:HLSB	:G56-H	: 7.65
WCA	:WCA-2A L-38	:L38	:S11B-H	: 11.72
WCA	:WCA-2A L-39	:CA2A	:S10A-T	: 13.22
FTLD	:C-14	:C14	:S37B-H	: 7.07
FTLD	:C-14E	:C14E	:S37A-H	: 4.11
FTLD	:Pompano	:POMP	:G57-H	: 4.50
FTLD	:C-12	:C12	:S33-H	: 2.84
FTLD	:C-13	:C13	:S36-H	: 4.05
FTLD	:North New River Canal	:NNRC	:G54-H	: 4.25
MIAMI	:L-33	:L33	:S30-H	: 5.86
MIAMI	:C-304	:C304	:S31-H	: 7.60
MIAMI	:C-9	:C9	:S29-H	: 1.45
MIAMI	:C-9 DEN	:C9DEN	:S29-H	: 1.45
MIAMI	:C-8	:C8	:S28-H	: 1.18
MIAMI	:C-7	:C7	:S27-H	: 1.27
MIAMI	:C-6	:C6	:S26-H	: 2.54
MIAMI	:C-2/C-4	:C4	:S25B-H	: 2.31
MIAMI	:L-30	:L30	:S335-H	: 6.97
WCA	:WCA-3A L-29	:CA3	:S333-H	: 8.47
WCA	:S-12A	:S12AD	:S12A-T	: 7.95
WCA	:S-12B	:S12BD	:S12B-T	: 8.38
WCA	:S-12C	:S12CD	:S12C-T	: 8.48
WCA	:S-12D	:S12DD	:S12D-T	: 8.46
MIAMI	:L-29	:L29	:S334-H	: 8.05
MIAMI	:C-100C	:C100C	:S119-H	: 3.59
MIAMI	:C-100	:C100	:S118-H	: 3.37
MIAMI	:C-100A	:C100A	:S123-H	: 2.34
HMST	:C-1/S-148	:S148U	:S148-H	: 3.16
HMST	:L-31N	:L31N	:S331-H	: 4.91
HMST	:C-1N	:C1N	:S149-H	: 3.17
MIAMI	:S-21	:S21	:S21-H	: 1.47
HMST	:L-31S	:L31S	:S176-H	: 4.32
MIAMI	:C-102N	:C102N	:S21A-H	: 1.83
HMST	:C-102	:C102	:S165-H	: 3.55
MIAMI	:C-103S	:C103S	:S167-H	: 3.37
HMST	:C-103N	:C103N	:S166-H	: 3.33
HMST	:C-103	:S179	:S179-H	: 3.09
HMST	:L-31W	:L31W	:S332-H	: 4.32
HMST	:C-111	:C111	:S177-H	: 3.40
HMST	:CNO	:CNO	:S179-H	: 3.09
HMST	:C-111E	:C111E	:S18C-H	: 2.34
HMST	:S-197	:S197	:S197-H	: 2.28
EAA	:L-23E	:L23E	:S8-T	: 11.72
EAA	:C-60	:C60	:S140-T	: 10.80

SFWMM	Name	col	row	STAGE	Source	Data	match	domain	match	areas
1-7		31	48	16.31	USACE		PA	CA1		
1-8T		34	47	16.13	USACE		PA	CA1		
1-9		33	46	16.24	USACE		PA	CA1		
2-17		29	40	12.48	USACE		PA	CA2		
2-159		28	43	13.57	SFWMD-ARDAMS		PA	CA2		
3-99		30	35	9.38	USACE			CA2		
3A-2		18	36	11.14	USACE		PA	CA3		
3A-3		25	37	9.88	USACE		PA	CA3		
3A-28		19	24	9.04	USACE		PA	CA3		
3A-4		21	29	9.67	USACE		PA	CA3		
3A-NW		18	40	11.81	SFWMD-ARDAMS			CA3		
3A-NE		23	40	9.88	SFWMD-ARDAMS			CA3		
3A-SW		16	30	9.82	SFWMD-ARDAMS			CA3		
3A-S		20	33	10.06	SFWMD-ARDAMS			CA3		
3-76		27	30	7.69	USACE					
3-71		24	26	7.77	USACE					
SHARK		24	23	7.52	USACE			CA3		
3BS1W		26	23	7.09	SFWMD-ARDAMS					
HOLY1		19	45	11.43	SFWMD-ARDAMS			WMA		
HOLY2		21	42	11.43	SFWMD-ARDAMS			WMA		
ROTTN		15	46	12.15	SFWMD-OPERATIONS			WMA		
ROTTS		16	43	12.02	SFWMD-OPERATIONS			WMA		
NP205		15	20	6.40	USACE			ENP		
NP201		19	21	7.04	USACE			ENP		
NP36		17	14	4.40	USACE			ENP		
NP38		16	9	2.08	USACE			ENP		
NP46		17	7	1.97	USACE			ENP		
NP67		22	7	2.44	USACE					
NP33		20	17	6.13	USACE			ENP		
NP34		13	17	3.12	USACE			ENP		
NP44		19	11	4.41	USACE			ENP		
NP206		21	15	6.09	USACE			ENP		
NESR2		25	21	7.57	USACE			ENP		
THS0		23	9	3.86	USACE					
RG2		23	15	5.82	USACE			ENP		
G3273		24	17	6.78	USACE		PA	ENP		
ANGEL		25	17	6.17	USACE		PA			
ANGEL		26	17	6.17	USACE		PA			
EVER4		25	8	2.19	USACE		PA	SA3		
E112		23	10	4.90	USACE			ENP		
G620		18	19	6.19	USACE			ENP		

Temporarily Unavailable

Temporarily Unavailable

Temporarily Unavailable

Lake Okechobee Band Probabilities (%) at the Beginning of Each Month
 '(See assumptions on the Position Analysis Results website)'
 Initial Stage 10.80 ft. for 06/01/2019

Date	HLM	High	Inter	Low	Base	Bene	WSM
2019 06 01	2.4	0.0	0.0	0.0	0.0	95.1	2.4
2019 07 01	2.4	0.0	0.0	0.0	0.0	95.1	2.4
2019 08 01	2.4	0.0	0.0	1.6	10.0	36.6	49.3
2019 09 01	2.4	0.0	0.0	12.1	33.3	9.5	42.7
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2020 02 01	2.4	-0.0	4.5	42.3	17.8	14.4	18.5
2020 03 01	2.4	1.6	6.0	36.9	19.7	10.6	22.6
2020 04 01	2.7	3.5	3.6	29.3	24.7	7.7	28.4
2020 05 01	2.4	0.0	3.3	29.2	15.3	24.3	25.4

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 - July 1, 2019 DPA Final LOK Stage 11.33

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	2	0	0.91	0.00	0.00	0.00	0.00	0.00	0.00
1965	11	0	0	46.41	0.00	0.00	0.00	0.00	0.00	0.00
1965	12	0	0	40.33	0.00	0.00	0.00	0.00	0.00	0.00
1966	1	0	0	0.68	0.00	0.00	0.00	0.00	0.00	0.00
1966	2	0	0	15.55	0.00	0.00	0.00	0.00	0.00	0.00
1966	3	0	0	62.67	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	49.49	0.00	0.00	0.01	0.01	0.01	0.01
1966	6	0	0	50.65	0.00	0.00	0.19	0.38	0.19	0.38
1966	7	0	0	1.83	0.00	0.00	0.00	0.00	0.00	0.00
1966	8	0	0	1.02	0.00	0.00	0.00	0.00	0.00	0.00
1966	9	0	0	1.26	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
1966	10	0	0	6.68	0.00	0.00	0.00	0.00	0.00	0.00
1966	11	0	0	82.84	0.00	0.00	0.00	0.00	0.00	0.00
1966	12	0	0	53.88	0.00	0.00	0.00	0.00	0.00	0.00
1967	1	0	0	44.78	0.00	0.00	0.00	0.00	0.00	0.00
1967	2	0	0	26.77	0.00	0.00	0.00	0.00	0.00	0.00
1967	3	0	0	79.62	0.00	0.00	0.00	0.00	0.00	0.00
1967	4	0	0	168.32	0.00	0.00	0.02	0.01	0.02	0.01
1967	5	0	0	204.31	0.00	0.00	1.72	0.84	1.72	0.84
1967	6	0	0	50.71	0.00	0.00	0.19	0.38	0.19	0.38
1967	7	0	0	5.38	0.00	0.00	0.00	0.00	0.00	0.00
1967	8	0	0	6.01	0.00	0.00	0.01	0.17	0.01	0.17
1967	9	9	0	12.10	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
1967	10	0	0	1.12	0.00	0.00	0.00	0.00	0.00	0.00
1967	11	0	0	85.38	0.00	0.00	0.00	0.00	0.00	0.00
1967	12	0	0	29.80	0.00	0.00	0.00	0.00	0.00	0.00
1968	1	0	0	58.66	0.00	0.00	0.00	0.00	0.00	0.00
1968	2	1	0	35.75	0.00	0.00	0.00	0.01	0.00	0.01
1968	3	11	8	75.95	12.57	16.55	0.00	0.00	12.57	16.55
1968	4	30	15	139.26	8.39	6.02	0.00	0.00	8.39	6.02
1968	5	30	2	30.05	0.99	3.29	0.00	0.00	0.99	3.29
1968	6	0	0	51.19	0.00	0.00	0.20	0.39	0.20	0.39
1968	7	0	0	13.16	0.00	0.00	0.00	0.00	0.00	0.00
1968	8	0	0	9.91	0.00	0.00	0.02	0.19	0.02	0.19
1968	9	0	0	8.62	0.00	0.00	0.00	0.01	0.00	0.01

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	35.07	0.00	0.00	0.00	0.00	0.00	0.00
1968	12	0	0	83.79	0.00	0.00	0.00	0.00	0.00	0.00
1969	1	0	0	25.69	0.00	0.00	0.00	0.00	0.00	0.00
1969	2	0	0	46.43	0.00	0.00	0.00	0.00	0.00	0.00
1969	3	0	0	12.28	0.00	0.00	0.00	0.00	0.00	0.00
1969	4	0	0	64.31	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	50.71	0.00	0.00	0.19	0.38	0.19	0.38
1969	7	20	6	23.55	8.79	37.31	0.01	0.06	8.80	37.37
1969	8	15	0	1.46	0.00	0.00	0.00	0.00	0.00	0.00
1969	9	10	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	7.58	0.00	0.00	0.00	0.00	0.00	0.00
1969	11	0	0	10.94	0.00	0.00	0.00	0.00	0.00	0.00
1969	12	0	0	16.78	0.00	0.00	0.00	0.00	0.00	0.00
1970	1	0	0	3.99	0.00	0.00	0.00	0.00	0.00	0.00
1970	2	0	0	12.11	0.00	0.00	0.00	0.00	0.00	0.00
1970	3	0	0	14.01	0.00	0.00	0.00	0.00	0.00	0.00
1970	4	0	0	73.18	0.00	0.00	0.00	0.00	0.00	0.00
1970	5	0	0	161.16	0.00	0.00	0.02	0.02	0.02	0.02
1970	6	0	0	50.66	0.00	0.00	0.19	0.38	0.19	0.38
1970	7	0	0	9.82	0.00	0.00	0.00	0.00	0.00	0.00
1970	8	14	0	6.32	0.00	0.00	0.00	0.00	0.00	0.00
1970	9	30	5	9.37	3.45	36.86	0.00	0.00	3.45	36.86

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	10.07	0.00	0.00	0.02	0.16	0.02	0.16
1970	11	30	19	92.56	17.57	18.99	3.09	3.33	20.66	22.32
1970	12	31	26	90.50	15.94	17.62	0.00	0.00	15.94	17.62
1971	1	31	15	72.19	4.92	6.82	0.00	0.00	4.92	6.82
1971	2	28	11	50.39	10.67	21.17	0.01	0.02	10.68	21.19
1971	3	31	26	121.96	47.82	39.21	0.00	0.00	47.82	39.21
1971	4	30	28	179.44	79.96	44.56	0.04	0.02	80.00	44.58
1971	5	31	15	144.62	42.01	29.05	12.51	8.65	54.52	37.70
1971	6	0	0	50.72	0.00	0.00	0.19	0.38	0.19	0.38
1971	7	0	0	3.48	0.00	0.00	0.00	0.00	0.00	0.00
1971	8	2	0	4.37	0.00	0.00	0.00	0.00	0.00	0.00
1971	9	3	0	12.22	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	14.65	0.00	0.00	0.00	0.00	0.00	0.00
1971	11	0	0	40.13	0.00	0.00	0.00	0.00	0.00	0.00
1971	12	0	0	48.78	0.00	0.00	0.00	0.00	0.00	0.00
1972	1	0	0	33.34	0.00	0.00	0.00	0.00	0.00	0.00
1972	2	0	0	33.44	0.00	0.00	0.00	0.00	0.00	0.00
1972	3	0	0	87.46	0.00	0.00	0.11	0.13	0.11	0.13
1972	4	0	0	42.72	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	51.20	0.00	0.00	0.20	0.39	0.20	0.39
1972	7	26	3	24.41	1.97	8.05	0.00	0.00	1.97	8.05
1972	8	31	15	42.95	21.21	49.37	0.00	0.00	21.21	49.37
1972	9	30	13	32.99	13.22	40.08	0.00	0.00	13.22	40.08

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	22	81.09	24.85	30.65	0.00	0.00	24.85	30.65
1972	11	30	6	29.89	7.78	26.02	0.26	0.88	8.04	26.90
1972	12	31	7	26.89	3.42	12.73	0.00	0.00	3.42	12.73
1973	1	31	5	13.44	2.79	20.73	0.00	0.00	2.79	20.73
1973	2	28	0	9.91	0.00	0.00	0.23	2.29	0.23	2.29
1973	3	31	14	59.89	13.43	22.43	0.25	0.42	13.69	22.85
1973	4	30	15	102.99	15.23	14.79	2.05	1.99	17.29	16.78
1973	5	31	17	149.04	41.57	27.89	13.38	8.98	54.95	36.87
1973	6	0	0	50.75	0.00	0.00	0.19	0.38	0.19	0.38
1973	7	0	0	1.90	0.00	0.00	0.00	0.00	0.00	0.00
1973	8	0	0	0.30	0.00	0.00	0.00	0.00	0.00	0.00
1973	9	0	0	0.60	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	18.01	0.00	0.00	0.00	0.00	0.00	0.00
1973	11	0	0	91.77	0.00	0.00	0.00	0.00	0.00	0.00
1973	12	0	0	26.50	0.00	0.00	0.00	0.00	0.00	0.00
1974	1	0	0	46.01	0.00	0.00	0.05	0.12	0.05	0.12
1974	2	0	0	75.78	0.00	0.00	0.00	0.00	0.00	0.00
1974	3	15	10	125.80	9.25	7.36	0.00	0.00	9.25	7.36
1974	4	30	5	113.10	7.37	6.52	0.00	0.00	7.37	6.52
1974	5	31	11	123.99	33.49	27.01	3.06	2.47	36.55	29.48
1974	6	0	0	50.66	0.00	0.00	0.19	0.38	0.19	0.38
1974	7	0	0	3.09	0.00	0.00	1.28	41.39	1.28	41.39
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	25.53	0.00	0.00	0.00	0.00	0.00	0.00
1974	11	0	0	63.86	0.00	0.00	0.00	0.00	0.00	0.00
1974	12	0	0	18.14	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	68.29	0.00	0.00	0.00	0.00	0.00	0.00
1975	3	0	0	98.54	0.00	0.00	0.00	0.00	0.00	0.00
1975	4	0	0	114.82	0.00	0.00	0.04	0.03	0.04	0.03
1975	5	0	0	43.11	0.00	0.00	0.09	0.22	0.09	0.22
1975	6	0	0	50.68	0.00	0.00	0.20	0.39	0.20	0.39
1975	7	0	0	2.89	0.00	0.00	0.00	0.00	0.00	0.00
1975	8	30	4	8.60	2.52	29.37	0.00	0.03	2.53	29.40
1975	9	30	0	0.50	0.00	0.00	0.01	2.66	0.01	2.66

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	5	0	3.43	0.00	0.00	0.00	0.00	0.00	0.00
1975	11	0	0	53.25	0.00	0.00	0.00	0.00	0.00	0.00
1975	12	0	0	77.00	0.00	0.00	0.00	0.00	0.00	0.00
1976	1	0	0	59.77	0.00	0.00	0.00	0.00	0.00	0.00
1976	2	18	8	63.92	6.76	10.57	0.01	0.02	6.77	10.59
1976	3	20	6	72.27	5.19	7.18	0.00	0.00	5.19	7.18
1976	4	30	9	113.49	5.29	4.66	0.00	0.00	5.29	4.66
1976	5	23	0	10.55	0.00	0.00	0.00	0.00	0.00	0.00
1976	6	0	0	51.20	0.00	0.00	0.20	0.39	0.20	0.39
1976	7	22	1	18.56	0.10	0.52	0.00	0.00	0.10	0.52
1976	8	31	0	2.61	0.00	0.00	0.00	0.00	0.00	0.00
1976	9	30	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	31	9	65.60	3.29	5.01	0.00	0.00	3.29	5.01
1976	11	30	4	48.30	3.32	6.88	0.54	1.12	3.86	7.99
1976	12	18	0	22.82	0.00	0.00	0.33	1.45	0.33	1.45
1977	1	0	0	1.74	0.00	0.00	0.01	0.57	0.01	0.57
1977	2	0	0	53.32	0.00	0.00	0.00	0.00	0.00	0.00
1977	3	0	0	105.64	0.00	0.00	0.00	0.00	0.00	0.00
1977	4	22	5	134.77	4.53	3.36	0.01	0.01	4.55	3.37
1977	5	28	2	45.19	2.25	4.97	0.08	0.18	2.33	5.15
1977	6	0	0	50.65	0.00	0.00	0.19	0.38	0.19	0.38
1977	7	22	3	18.53	2.87	15.49	0.00	0.00	2.87	15.49
1977	8	31	1	7.35	0.18	2.49	0.00	0.00	0.18	2.49
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	10	68.53	14.32	20.90	0.00	0.00	14.32	20.90
1977	11	25	0	23.99	0.00	0.00	0.84	3.51	0.84	3.51
1977	12	0	0	1.07	0.00	0.00	0.00	0.00	0.00	0.00
1978	1	0	0	6.84	0.00	0.00	0.00	0.00	0.00	0.00
1978	2	0	0	25.35	0.00	0.00	0.00	0.00	0.00	0.00
1978	3	0	0	48.25	0.00	0.00	0.00	0.00	0.00	0.00
1978	4	0	0	108.75	0.00	0.00	0.00	0.00	0.00	0.00
1978	5	0	0	18.93	0.00	0.00	0.08	0.42	0.08	0.42
1978	6	0	0	50.71	0.00	0.00	0.20	0.39	0.20	0.39
1978	7	0	0	4.01	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	39.71	0.00	0.00	0.00	0.00	0.00	0.00
1979	3	0	0	73.27	0.00	0.00	0.00	0.00	0.00	0.00
1979	4	0	0	115.10	0.00	0.00	0.00	0.00	0.00	0.00
1979	5	0	0	0.29	0.00	0.00	0.00	0.00	0.00	0.00
1979	6	0	0	50.65	0.00	0.00	0.19	0.38	0.19	0.38
1979	7	27	5	24.35	5.25	21.55	0.00	0.00	5.25	21.55
1979	8	31	2	7.76	0.97	12.52	0.00	0.00	0.97	12.52
1979	9	16	0	0.27	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	12.86	0.00	0.00	0.00	0.00	0.00	0.00
1979	11	0	0	4.37	0.00	0.00	0.00	0.00	0.00	0.00
1979	12	0	0	19.50	0.00	0.00	0.00	0.00	0.00	0.00
1980	1	0	0	36.44	0.00	0.00	0.00	0.00	0.00	0.00
1980	2	0	0	11.20	0.00	0.00	0.00	0.00	0.00	0.00
1980	3	0	0	64.38	0.00	0.00	0.00	0.00	0.00	0.00
1980	4	0	0	13.01	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	51.23	0.00	0.00	0.20	0.39	0.20	0.39
1980	7	20	3	16.15	4.24	26.25	0.00	0.00	4.24	26.25
1980	8	31	0	7.09	0.00	0.00	0.00	0.00	0.00	0.00
1980	9	30	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	31	19	77.09	18.90	24.52	0.00	0.00	18.91	24.52
1980	11	30	5	29.37	2.72	9.26	0.74	2.51	3.46	11.77
1980	12	31	7	38.28	6.50	16.99	0.00	0.00	6.50	16.99
1981	1	31	27	73.41	23.61	32.16	0.00	0.00	23.61	32.16
1981	2	28	7	30.09	6.93	23.03	0.05	0.17	6.98	23.20
1981	3	31	21	90.45	30.46	33.68	0.07	0.08	30.53	33.76
1981	4	30	28	159.70	61.35	38.41	0.00	0.00	61.35	38.41
1981	5	31	24	201.04	110.91	55.17	1.04	0.52	111.94	55.68
1981	6	0	0	50.69	0.00	0.00	0.20	0.38	0.20	0.38
1981	7	24	10	63.65	26.12	41.04	0.00	0.00	26.12	41.04
1981	8	31	0	1.93	0.00	0.00	0.00	0.00	0.00	0.00
1981	9	30	0	1.86	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
1981	10	31	25	100.55	21.30	21.19	0.02	0.02	21.33	21.21
1981	11	30	12	50.83	10.40	20.46	1.24	2.43	11.63	22.89
1981	12	31	24	88.52	14.74	16.65	0.03	0.03	14.77	16.68
1982	1	31	14	67.09	4.89	7.28	0.01	0.02	4.90	7.30
1982	2	28	1	21.15	0.10	0.49	0.00	0.00	0.10	0.49
1982	3	31	3	29.91	2.61	8.74	0.00	0.00	2.61	8.74
1982	4	14	0	11.48	0.00	0.00	0.00	0.00	0.00	0.00
1982	5	0	0	107.04	0.00	0.00	0.06	0.06	0.06	0.06
1982	6	0	0	50.55	0.00	0.00	0.19	0.38	0.19	0.38
1982	7	0	0	12.17	0.00	0.00	0.00	0.00	0.00	0.00
1982	8	0	0	3.23	0.00	0.00	0.03	0.86	0.03	0.86
1982	9	0	0	5.44	0.00	0.00	0.06	1.16	0.06	1.16

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	13.28	0.00	0.00	0.00	0.00	0.00	0.00
1982	11	0	0	44.78	0.00	0.00	0.00	0.00	0.00	0.00
1982	12	0	0	46.93	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	28.76	0.00	0.00	0.00	0.00	0.00	0.00
1983	5	0	0	207.05	0.00	0.00	0.02	0.01	0.02	0.01
1983	6	0	0	50.66	0.00	0.00	0.19	0.38	0.19	0.38
1983	7	17	12	46.82	17.48	37.33	0.01	0.03	17.49	37.36
1983	8	31	2	5.76	0.18	3.15	0.03	0.46	0.21	3.61
1983	9	30	3	6.78	3.17	46.75	0.01	0.16	3.18	46.91

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	19	0	3.27	0.00	0.00	0.00	0.00	0.00	0.00
1983	11	0	0	19.87	0.00	0.00	0.00	0.00	0.00	0.00
1983	12	0	0	16.93	0.00	0.00	0.00	0.00	0.00	0.00
1984	1	0	0	29.40	0.00	0.00	0.00	0.00	0.00	0.00
1984	2	0	0	32.16	0.00	0.00	0.00	0.00	0.00	0.00
1984	3	0	0	15.27	0.00	0.00	0.00	0.00	0.00	0.00
1984	4	0	0	48.29	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	51.18	0.00	0.00	0.20	0.38	0.20	0.38
1984	7	0	0	1.75	0.00	0.00	0.10	5.99	0.10	5.99
1984	8	0	0	18.90	0.00	0.00	0.15	0.77	0.15	0.77
1984	9	0	0	14.36	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
1984	10	0	0	52.00	0.00	0.00	0.00	0.00	0.00	0.00
1984	11	10	8	60.12	9.58	15.94	0.21	0.34	9.79	16.28
1984	12	0	0	47.72	0.00	0.00	0.00	0.00	0.00	0.00
1985	1	0	0	57.74	0.00	0.00	0.04	0.07	0.04	0.07
1985	2	19	15	88.42	8.04	9.10	0.00	0.00	8.05	9.10
1985	3	31	16	85.49	18.18	21.27	0.05	0.06	18.23	21.33
1985	4	30	0	29.19	0.00	0.00	0.00	0.00	0.00	0.00
1985	5	31	11	120.97	21.43	17.71	3.02	2.50	24.45	20.21
1985	6	0	0	50.76	0.00	0.00	0.19	0.38	0.19	0.38
1985	7	16	0	5.57	0.00	0.00	0.00	0.00	0.00	0.00
1985	8	31	0	1.95	0.00	0.00	0.00	0.00	0.00	0.00
1985	9	20	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	0	0	7.98	0.00	0.00	0.00	0.00	0.00	0.00
1985	11	0	0	34.23	0.00	0.00	0.00	0.00	0.00	0.00
1985	12	0	0	18.64	0.00	0.00	0.02	0.09	0.02	0.09
1986	1	0	0	12.82	0.00	0.00	0.00	0.00	0.00	0.00
1986	2	0	0	47.26	0.00	0.00	0.10	0.22	0.10	0.22
1986	3	0	0	18.26	0.00	0.00	0.12	0.67	0.12	0.67
1986	4	0	0	137.60	0.00	0.00	0.00	0.00	0.00	0.00
1986	5	0	0	129.94	0.00	0.00	0.16	0.12	0.16	0.12
1986	6	0	0	50.69	0.00	0.00	0.20	0.39	0.20	0.39
1986	7	0	0	3.38	0.00	0.00	0.00	0.00	0.00	0.00
1986	8	0	0	0.05	0.00	0.00	0.02	46.70	0.02	46.70
1986	9	0	0	6.23	0.00	0.00	0.08	1.22	0.08	1.22

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	30.73	0.00	0.00	0.01	0.04	0.01	0.04
1986	11	0	0	22.34	0.00	0.00	0.13	0.58	0.13	0.58
1986	12	0	0	40.29	0.00	0.00	0.44	1.10	0.44	1.10
1987	1	0	0	11.90	0.00	0.00	0.00	0.00	0.00	0.00
1987	2	0	0	20.84	0.00	0.00	0.04	0.18	0.04	0.18
1987	3	0	0	19.34	0.00	0.00	0.04	0.22	0.04	0.22
1987	4	0	0	107.38	0.00	0.00	0.02	0.02	0.02	0.02
1987	5	0	0	111.13	0.00	0.00	0.25	0.22	0.25	0.22
1987	6	0	0	50.68	0.00	0.00	0.19	0.38	0.19	0.38
1987	7	23	3	17.35	1.15	6.60	0.00	0.00	1.15	6.60
1987	8	31	19	59.09	39.62	67.05	0.00	0.00	39.62	67.05
1987	9	30	8	15.01	5.86	39.02	0.00	0.00	5.86	39.02

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	17.66	0.00	0.00	0.00	0.00	0.00	0.00
1987	11	7	0	2.43	0.00	0.00	0.22	9.07	0.22	9.07
1987	12	0	0	34.29	0.00	0.00	0.00	0.00	0.00	0.00
1988	1	0	0	9.18	0.00	0.00	0.00	0.00	0.00	0.00
1988	2	0	0	11.40	0.00	0.00	0.00	0.03	0.00	0.03
1988	3	0	0	24.83	0.00	0.00	0.00	0.00	0.00	0.00
1988	4	0	0	135.82	0.00	0.00	0.00	0.00	0.00	0.00
1988	5	0	0	109.35	0.00	0.00	0.00	0.00	0.00	0.00
1988	6	0	0	51.20	0.00	0.00	0.20	0.39	0.20	0.39
1988	7	2	0	7.65	0.00	0.00	0.00	0.00	0.00	0.00
1988	8	0	0	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1988	9	4	4	45.50	3.98	8.75	0.00	0.00	3.98	8.75

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	120.78	37.72	31.23	0.33	0.27	38.04	31.50
1988	11	30	0	38.77	0.00	0.00	1.02	2.63	1.02	2.63
1988	12	31	4	46.82	1.50	3.21	0.28	0.59	1.78	3.80
1989	1	31	12	54.71	7.69	14.05	0.25	0.46	7.94	14.52
1989	2	28	18	86.82	13.47	15.52	0.07	0.08	13.54	15.60
1989	3	31	5	53.18	0.85	1.59	0.02	0.04	0.87	1.63
1989	4	26	1	44.71	0.09	0.20	0.02	0.04	0.11	0.24
1989	5	6	6	129.52	16.08	12.41	0.65	0.50	16.73	12.92
1989	6	0	0	50.78	0.00	0.00	0.19	0.38	0.19	0.38
1989	7	19	4	33.66	5.20	15.45	0.00	0.00	5.20	15.45
1989	8	31	1	4.97	0.05	1.02	0.00	0.00	0.05	1.02
1989	9	30	0	0.83	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	14.09	0.08	0.56	0.00	0.00	0.08	0.56
1989	11	30	21	92.76	10.60	11.43	0.98	1.06	11.58	12.49
1989	12	31	2	24.57	0.35	1.41	0.05	0.22	0.40	1.63
1990	1	0	0	58.12	0.00	0.00	0.11	0.19	0.11	0.19
1990	2	0	0	12.21	0.00	0.00	0.04	0.35	0.04	0.35
1990	3	0	0	68.58	0.00	0.00	0.00	0.00	0.00	0.00
1990	4	0	0	91.10	0.00	0.00	0.00	0.00	0.00	0.00
1990	5	0	0	46.64	0.00	0.00	0.16	0.33	0.16	0.33
1990	6	0	0	50.65	0.00	0.00	0.19	0.38	0.19	0.38
1990	7	0	0	5.19	0.00	0.00	0.05	0.90	0.05	0.90
1990	8	0	0	2.50	0.00	0.00	0.00	0.00	0.00	0.00
1990	9	0	0	19.31	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	14.34	0.00	0.00	0.00	0.00	0.00	0.00
1990	11	0	0	76.69	0.00	0.00	0.00	0.00	0.00	0.00
1990	12	0	0	78.47	0.00	0.00	0.00	0.00	0.00	0.00
1991	1	0	0	4.85	0.00	0.00	0.03	0.52	0.03	0.52
1991	2	0	0	26.82	0.00	0.00	0.00	0.00	0.00	0.00
1991	3	0	0	55.17	0.00	0.00	0.00	0.00	0.00	0.00
1991	4	0	0	3.91	0.00	0.00	0.00	0.00	0.00	0.00
1991	5	0	0	50.10	0.00	0.00	0.00	0.00	0.00	0.00
1991	6	0	0	50.68	0.00	0.00	0.19	0.38	0.19	0.38
1991	7	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1991	8	0	0	8.86	0.00	0.00	0.00	0.00	0.00	0.00
1991	9	0	0	5.00	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	11.90	0.00	0.00	0.00	0.00	0.00	0.00
1991	11	0	0	43.06	0.00	0.00	0.00	0.00	0.00	0.00
1991	12	0	0	34.72	0.00	0.00	0.00	0.00	0.00	0.00
1992	1	0	0	19.77	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	31.13	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	203.97	0.00	0.00	0.43	0.21	0.43	0.21
1992	6	0	0	51.31	0.00	0.00	0.20	0.39	0.20	0.39
1992	7	0	0	41.66	0.00	0.00	0.00	0.01	0.00	0.01
1992	8	16	0	6.42	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	50.99	0.00	0.00	0.00	0.00	0.00	0.00
1992	11	0	0	19.92	0.00	0.00	0.00	0.00	0.00	0.00
1992	12	0	0	39.05	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	7.63	0.00	0.00	0.00	0.00	0.00	0.00
1993	3	0	0	19.73	0.00	0.00	0.00	0.00	0.00	0.00
1993	4	0	0	55.88	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	50.65	0.00	0.00	0.19	0.38	0.19	0.38
1993	7	23	15	58.52	20.11	34.36	0.00	0.00	20.11	34.36
1993	8	31	20	55.60	27.84	50.07	0.00	0.00	27.84	50.07
1993	9	30	0	2.84	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	3.05	0.00	0.00	0.00	0.00	0.00	0.00
1993	11	30	0	35.88	0.00	0.00	0.17	0.47	0.17	0.47
1993	12	31	8	48.45	4.04	8.35	0.09	0.18	4.13	8.52
1994	1	0	0	7.97	0.00	0.00	0.04	0.47	0.04	0.47
1994	2	0	0	8.94	0.00	0.00	0.00	0.00	0.00	0.00
1994	3	0	0	44.02	0.00	0.00	0.00	0.00	0.00	0.00
1994	4	0	0	49.29	0.00	0.00	0.12	0.25	0.12	0.25
1994	5	0	0	97.73	0.00	0.00	0.00	0.00	0.00	0.00
1994	6	0	0	50.66	0.00	0.00	0.19	0.38	0.19	0.38
1994	7	4	0	16.80	0.00	0.00	0.00	0.00	0.00	0.00
1994	8	9	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	7.61	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	7.80	0.00	0.00	0.00	0.00	0.00	0.00
1995	3	0	0	30.35	0.00	0.00	0.00	0.00	0.00	0.00
1995	4	0	0	73.13	0.00	0.00	0.00	0.00	0.00	0.00
1995	5	0	0	92.10	0.00	0.00	0.00	0.00	0.00	0.00
1995	6	0	0	50.70	0.00	0.00	0.19	0.38	0.19	0.38
1995	7	16	0	16.25	0.00	0.00	0.00	0.00	0.00	0.00
1995	8	0	0	1.98	0.00	0.00	0.00	0.00	0.00	0.00
1995	9	0	0	10.27	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	0.83	0.00	0.00	0.00	0.00	0.00	0.00
1995	11	0	0	45.19	0.00	0.00	0.00	0.00	0.00	0.00
1995	12	0	0	32.27	0.00	0.00	0.00	0.00	0.00	0.00
1996	1	0	0	12.78	0.00	0.00	0.00	0.00	0.00	0.00
1996	2	0	0	73.74	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	60.05	0.00	0.00	0.00	0.00	0.00	0.00
1996	5	0	0	34.68	0.00	0.00	0.00	0.00	0.00	0.00
1996	6	0	0	51.21	0.00	0.00	0.20	0.39	0.20	0.39
1996	7	5	5	61.27	15.07	24.59	0.00	0.00	15.07	24.59
1996	8	31	6	19.70	4.17	21.19	0.10	0.51	4.27	21.70
1996	9	30	13	29.72	9.43	31.72	0.00	0.00	9.43	31.72

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	31	0	16.72	0.00	0.00	0.00	0.00	0.00	0.00
1996	11	30	15	69.13	12.19	17.63	0.73	1.06	12.92	18.69
1996	12	31	25	76.72	17.82	23.23	0.00	0.00	17.82	23.23
1997	1	31	9	47.01	3.84	8.16	0.01	0.02	3.85	8.18
1997	2	28	8	44.62	5.24	11.75	0.02	0.04	5.26	11.79
1997	3	31	13	57.15	20.14	35.23	0.00	0.00	20.14	35.23
1997	4	30	7	31.07	6.42	20.67	0.00	0.00	6.42	20.67
1997	5	31	1	20.59	1.48	7.21	1.97	9.59	3.46	16.80
1997	6	0	0	50.64	0.00	0.00	0.20	0.39	0.20	0.39
1997	7	16	0	10.77	0.00	0.00	0.00	0.00	0.00	0.00
1997	8	6	0	1.95	0.00	0.00	0.00	0.00	0.00	0.00
1997	9	0	0	6.29	0.00	0.00	0.00	0.02	0.00	0.02

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	49.77	0.00	0.00	0.01	0.02	0.01	0.02
1997	11	0	0	16.27	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	2.00	0.00	0.00	0.00	0.00	0.00	0.00
1998	3	0	0	4.63	0.00	0.00	0.00	0.00	0.00	0.00
1998	4	0	0	92.44	0.00	0.00	0.00	0.00	0.00	0.00
1998	5	0	0	132.42	0.00	0.00	0.15	0.12	0.15	0.12
1998	6	0	0	50.64	0.00	0.00	0.19	0.38	0.19	0.38
1998	7	13	2	21.17	0.61	2.89	0.00	0.00	0.61	2.89
1998	8	31	1	7.75	0.67	8.59	0.61	7.92	1.28	16.51
1998	9	28	1	2.00	0.04	1.92	0.00	0.00	0.04	1.92

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	23.40	0.00	0.00	0.00	0.00	0.00	0.00
1998	11	0	0	18.38	0.00	0.00	0.00	0.00	0.00	0.00
1998	12	0	0	30.96	0.00	0.00	0.00	0.00	0.00	0.00
1999	1	0	0	10.21	0.00	0.00	0.00	0.00	0.00	0.00
1999	2	0	0	45.24	0.00	0.00	0.00	0.00	0.00	0.00
1999	3	0	0	123.32	0.00	0.00	0.00	0.00	0.00	0.00
1999	4	0	0	127.77	0.00	0.00	0.00	0.00	0.00	0.00
1999	5	0	0	88.53	0.00	0.00	0.96	1.08	0.96	1.08
1999	6	0	0	50.66	0.00	0.00	0.19	0.38	0.19	0.38
1999	7	0	0	9.80	0.00	0.00	0.13	1.36	0.13	1.36
1999	8	12	0	13.34	0.00	0.00	0.00	0.00	0.00	0.00
1999	9	0	0	3.22	0.00	0.00	0.91	28.19	0.91	28.19

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	37.49	0.00	0.00	0.00	0.00	0.00	0.00
1999	12	0	0	47.30	0.00	0.00	0.00	0.00	0.00	0.00
2000	1	0	0	59.69	0.00	0.00	0.00	0.00	0.00	0.00
2000	2	0	0	65.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	3	0	0	72.54	0.00	0.00	0.00	0.00	0.00	0.00
2000	4	0	0	72.62	0.00	0.00	0.04	0.05	0.04	0.05
2000	5	0	0	184.06	0.00	0.00	0.14	0.07	0.14	0.07
2000	6	0	0	51.22	0.00	0.00	0.20	0.38	0.20	0.38
2000	7	15	0	1.79	0.00	0.00	0.00	0.00	0.00	0.00
2000	8	31	15	48.68	30.45	62.56	0.00	0.00	30.45	62.56
2000	9	30	3	4.18	0.99	23.68	0.00	0.00	0.99	23.68

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	6	42.80	3.17	7.41	0.00	0.00	3.17	7.41
2000	11	30	25	105.67	22.19	21.00	0.19	0.18	22.38	21.18
2000	12	31	14	78.37	12.29	15.68	0.03	0.04	12.31	15.71
2001	1	31	19	67.86	12.87	18.97	0.06	0.09	12.93	19.06
2001	2	28	26	96.26	35.58	36.97	0.00	0.00	35.58	36.97
2001	3	31	15	72.32	30.47	42.13	0.02	0.03	30.49	42.16
2001	4	30	21	124.29	45.62	36.71	0.00	0.00	45.62	36.71
2001	5	31	17	166.11	68.09	40.99	7.22	4.35	75.31	45.34
2001	6	0	0	50.72	0.00	0.00	0.19	0.38	0.19	0.38
2001	7	9	0	11.93	0.00	0.00	0.00	0.00	0.00	0.00
2001	8	0	0	23.17	0.00	0.00	0.00	0.00	0.00	0.00
2001	9	0	0	5.48	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
2001	10	0	0	10.04	0.00	0.00	0.00	0.00	0.00	0.00
2001	11	0	0	41.29	0.00	0.00	0.00	0.00	0.00	0.00
2001	12	0	0	41.62	0.00	0.00	0.01	0.02	0.01	0.02
2002	1	0	0	28.67	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	78.95	0.00	0.00	0.00	0.00	0.00	0.00
2002	4	0	0	107.20	0.00	0.00	0.03	0.03	0.03	0.03
2002	5	0	0	153.30	0.00	0.00	0.01	0.01	0.01	0.01
2002	6	0	0	50.72	0.00	0.00	0.19	0.38	0.19	0.38
2002	7	0	0	13.44	0.00	0.00	0.00	0.01	0.00	0.01
2002	8	0	0	15.70	0.00	0.00	0.05	0.30	0.05	0.30
2002	9	0	0	10.66	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	30.71	0.00	0.00	0.00	0.00	0.00	0.00
2002	12	0	0	7.56	0.00	0.00	0.00	0.00	0.00	0.00
2003	1	0	0	45.75	0.00	0.00	0.00	0.00	0.00	0.00
2003	2	0	0	56.64	0.00	0.00	0.00	0.00	0.00	0.00
2003	3	0	0	34.84	0.00	0.00	0.00	0.00	0.00	0.00
2003	4	0	0	68.25	0.00	0.00	0.00	0.00	0.00	0.00
2003	5	0	0	55.30	0.00	0.00	0.00	0.00	0.00	0.00
2003	6	0	0	50.70	0.00	0.00	0.19	0.38	0.19	0.38
2003	7	15	0	12.73	0.00	0.00	0.00	0.00	0.00	0.00
2003	8	11	0	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2003	9	0	0	1.31	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	41.26	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	28.51	0.00	0.00	0.01	0.02	0.01	0.02
2004	1	0	0	45.43	0.00	0.00	0.00	0.00	0.00	0.00
2004	2	0	0	17.48	0.00	0.00	0.00	0.00	0.00	0.00
2004	3	0	0	99.93	0.00	0.00	0.00	0.00	0.00	0.00
2004	4	0	0	98.92	0.00	0.00	0.05	0.05	0.05	0.05
2004	5	0	0	195.05	0.00	0.00	0.13	0.06	0.13	0.06
2004	6	0	0	51.31	0.00	0.00	0.20	0.39	0.20	0.39
2004	7	25	7	35.70	5.39	15.09	0.03	0.09	5.42	15.18
2004	8	26	0	0.04	0.00	0.00	0.03	93.99	0.03	93.99
2004	9	0	0	0.26	0.00	0.00	0.11	42.70	0.11	42.70

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	8.33	0.00	0.00	0.00	0.00	0.00	0.00
2004	11	0	0	42.72	0.00	0.00	0.00	0.00	0.00	0.00
2004	12	0	0	59.00	0.00	0.00	0.00	0.00	0.00	0.00
2005	1	0	0	44.62	0.00	0.00	0.00	0.00	0.00	0.00
2005	2	0	0	79.26	0.00	0.00	0.00	0.00	0.00	0.00
2005	3	0	0	0.40	0.00	0.00	0.00	0.00	0.00	0.00
2005	4	0	0	59.73	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	50.69	0.00	0.00	0.19	0.38	0.19	0.38
2005	7	0	0	31.33	0.00	0.00	0.59	1.90	0.59	1.90
2005	8	0	0	10.05	0.00	0.00	0.14	1.43	0.14	1.43
2005	9	0	0	13.34	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)

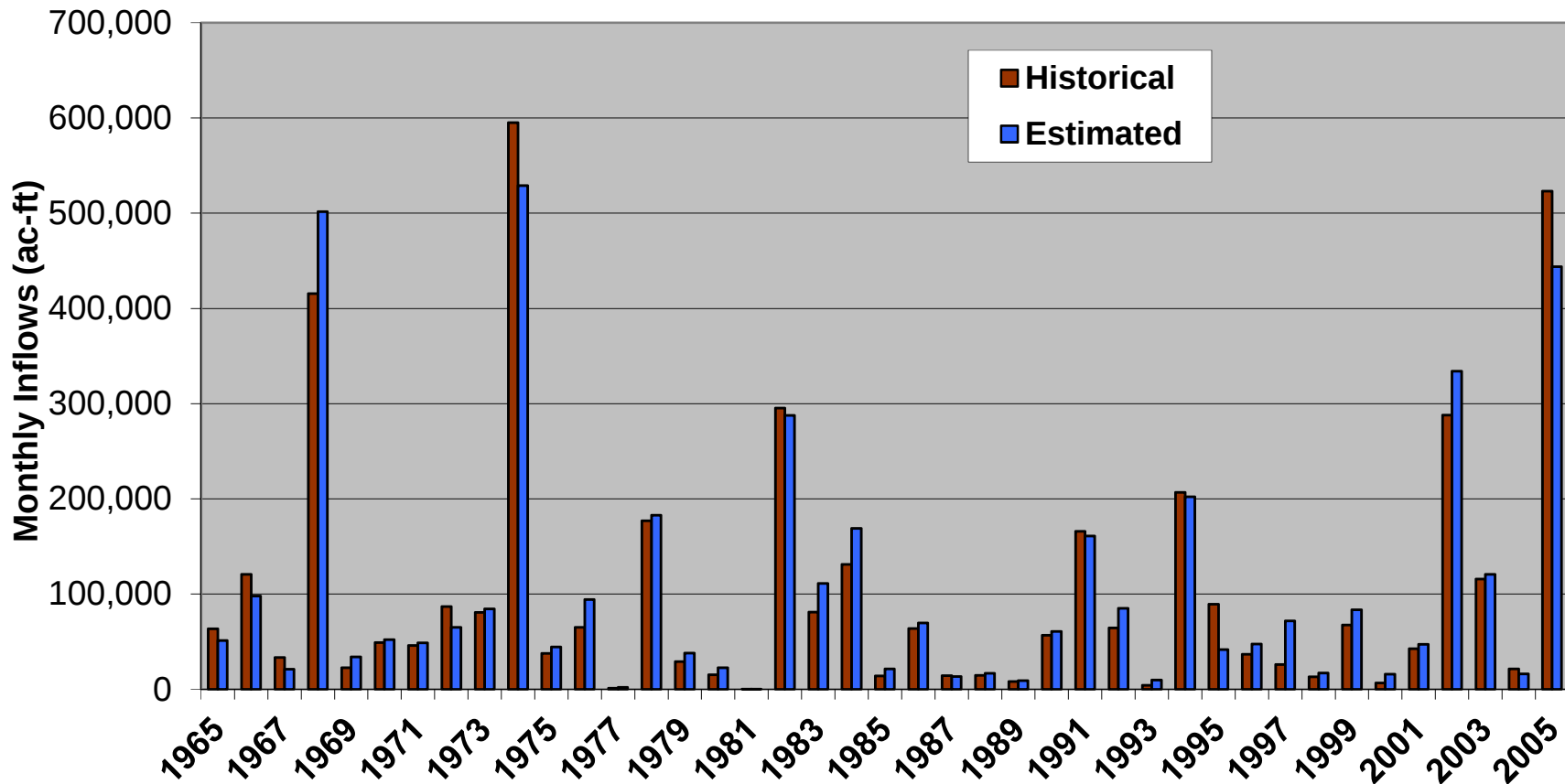
Run:
SFWMM v6.7.4 - July 1, 2019 DPA Final LOK Stage 11.33

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	2	0	328.86	0.00	0.00	0.20	0.06	0.20	0.06
1967	9	0	741.41	0.00	0.00	1.95	0.26	1.95	0.26
1968	72	25	538.86	21.95	4.07	0.22	0.04	22.17	4.11
1969	45	6	369.55	8.79	2.38	0.21	0.06	9.00	2.43
1970	44	5	375.94	3.45	0.92	0.22	0.06	3.67	0.98
1971	248	140	832.51	218.90	26.29	15.86	1.91	234.76	28.20
1972	87	31	475.72	36.40	7.65	0.31	0.07	36.71	7.72
1973	243	86	526.69	109.08	20.71	16.37	3.11	125.45	23.82
1974	76	26	675.70	50.12	7.42	4.59	0.68	54.71	8.10
1975	60	4	571.32	2.52	0.44	0.34	0.06	2.87	0.50
1976	179	24	528.32	17.33	3.28	0.21	0.04	17.54	3.32
1977	212	24	554.03	16.44	2.97	1.17	0.21	17.61	3.18
1978	56	10	358.41	14.32	4.00	1.12	0.31	15.44	4.31
1979	74	7	362.38	6.22	1.72	0.19	0.05	6.41	1.77
1980	81	3	336.98	4.24	1.26	0.20	0.06	4.44	1.32
1981	328	148	817.55	287.50	35.17	2.10	0.26	289.60	35.42
1982	196	79	547.94	54.04	9.86	1.65	0.30	55.69	10.16
1983	78	17	473.00	20.83	4.40	0.27	0.06	21.10	4.46
1984	19	0	370.57	0.00	0.00	0.45	0.12	0.45	0.12
1985	188	50	600.23	57.23	9.54	3.52	0.59	60.75	10.12
1986	0	0	467.06	0.00	0.00	0.69	0.15	0.69	0.15
1987	84	30	506.09	46.63	9.21	1.13	0.22	47.76	9.44
1988	44	4	449.32	3.98	0.89	0.42	0.09	4.41	0.98
1989	294	79	665.54	82.64	12.42	2.84	0.43	85.48	12.84
1990	92	24	485.72	11.03	2.27	1.59	0.33	12.61	2.60
1991	0	0	374.87	0.00	0.00	0.22	0.06	0.22	0.06
1992	16	0	474.04	0.00	0.00	0.63	0.13	0.63	0.13
1993	84	35	542.48	47.95	8.84	0.20	0.04	48.15	8.88
1994	105	8	363.50	4.04	1.11	0.61	0.17	4.65	1.28
1995	16	0	304.47	0.00	0.00	0.19	0.06	0.19	0.06
1996	66	24	455.25	28.67	6.30	0.30	0.07	28.97	6.36
1997	265	78	432.68	67.13	15.51	2.94	0.68	70.07	16.19
1998	72	4	381.25	1.32	0.35	0.97	0.25	2.28	0.60
1999	12	0	544.82	0.00	0.00	2.19	0.40	2.19	0.40
2000	76	18	645.00	31.44	4.87	0.37	0.06	31.81	4.93
2001	252	143	844.97	230.29	27.25	7.71	0.91	238.00	28.17
2002	0	0	582.09	0.00	0.00	0.29	0.05	0.29	0.05
2003	26	0	375.63	0.00	0.00	0.19	0.05	0.19	0.05
2004	51	7	646.55	5.39	0.83	0.55	0.09	5.94	0.92
2005	0	0	466.52	0.00	0.00	0.94	0.20	0.94	0.20

July 1 2019 Dynamic Position Analysis

Historical and Estimated S-65E Monthly Flow for July from 1965 - 2005



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

