

## Dynamic Position Analysis for August 4, 2019

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

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## **August 4, 2019**

# **Dynamic Position Analysis Using Hybrid LOWSM Modeling Assumptions**

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- August 4, 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 July 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. A transition from El Niño to ENNSO-neutral is expected in the next month or two with ENSO-neutral most likely to continue through the fall and winter.
- 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:

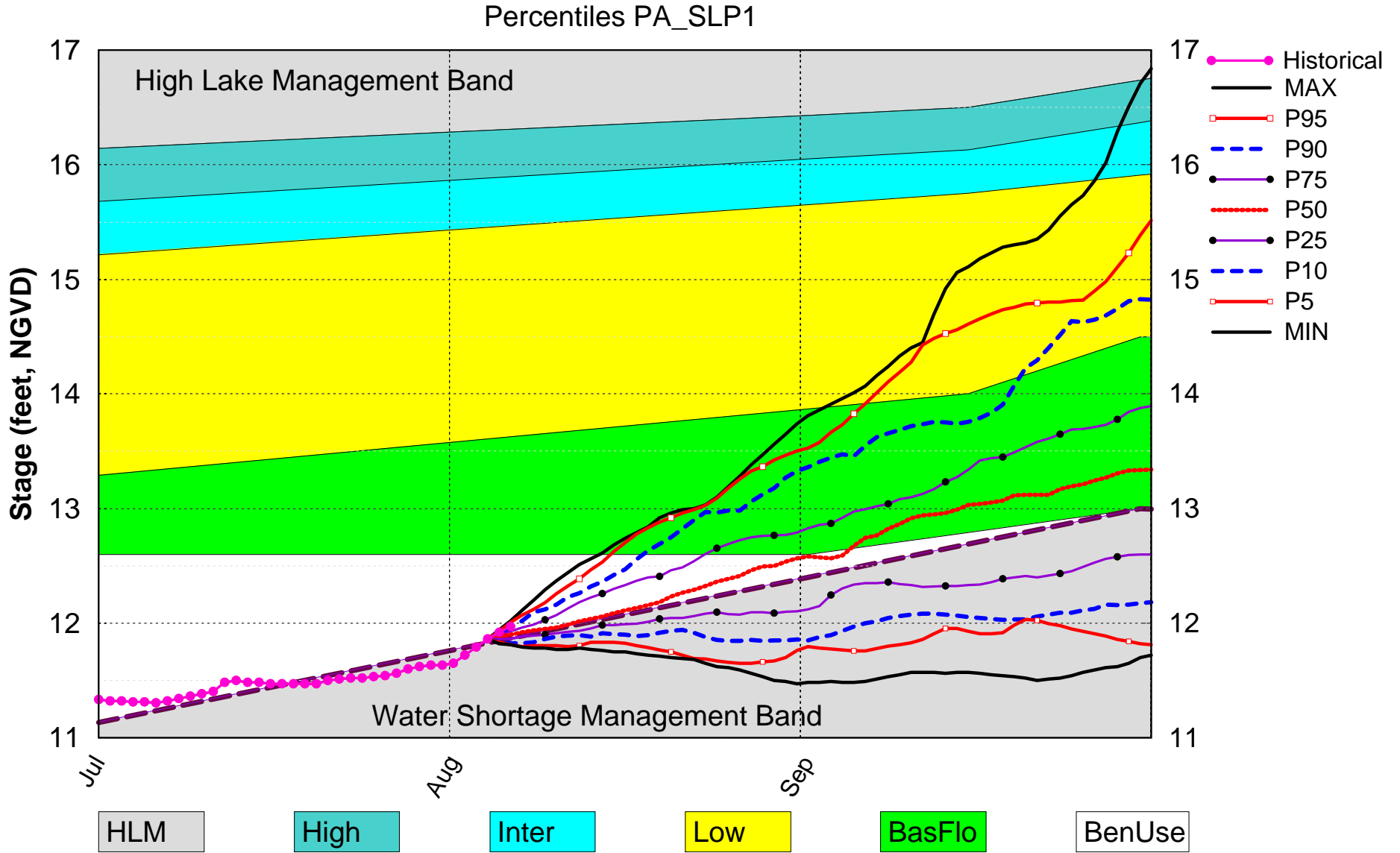
[https://origin.cpc.ncep.noaa.gov/products/analysis\\_monitoring/ensostuff/ONI\\_v5.php](https://origin.cpc.ncep.noaa.gov/products/analysis_monitoring/ensostuff/ONI_v5.php)

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](#).

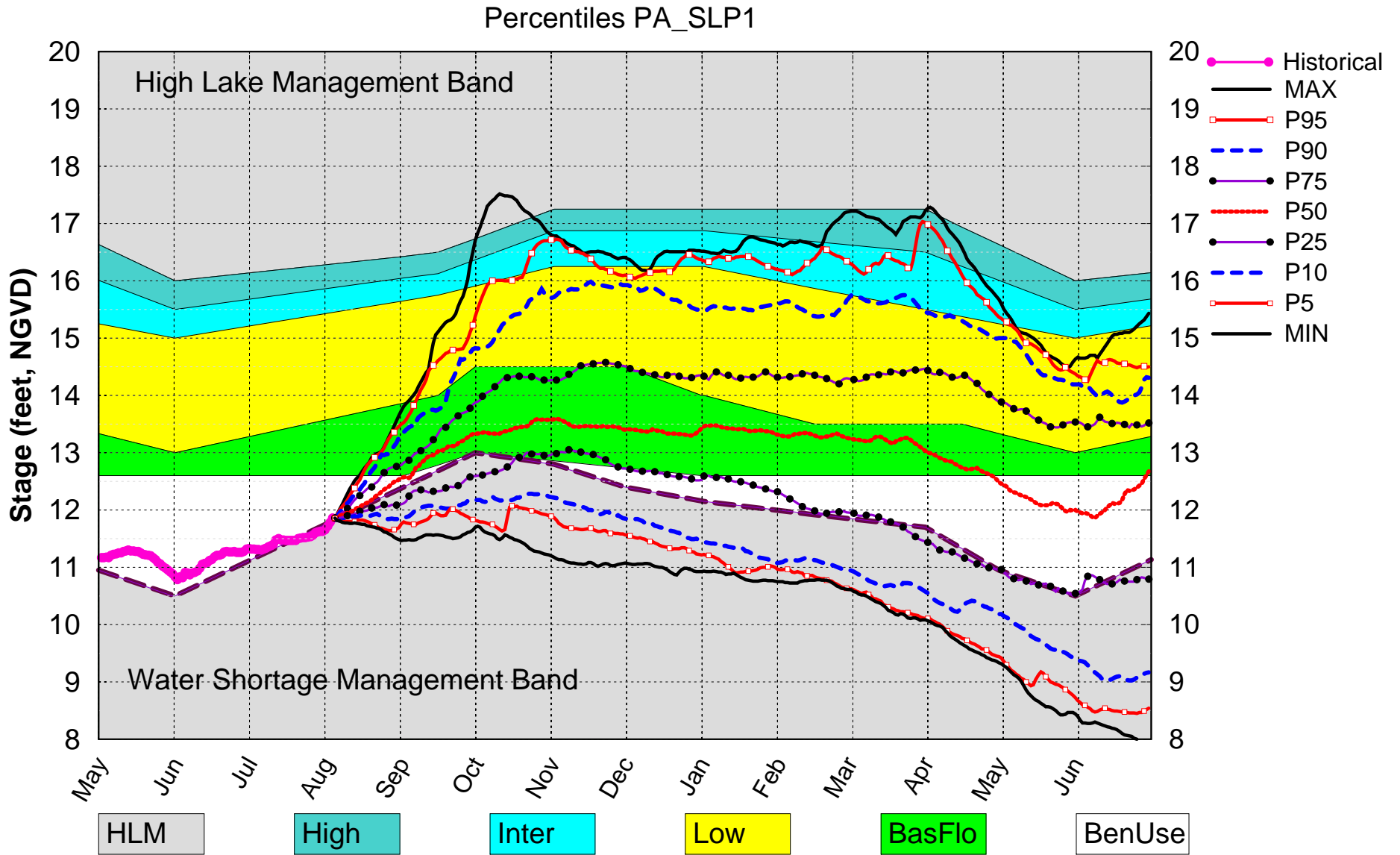
**[Back to Operational Planning Main Page](#)**

# Lake Okeechobee SFWMM Aug 2019 Position Analysis



(See assumptions on the Position Analysis Results website)

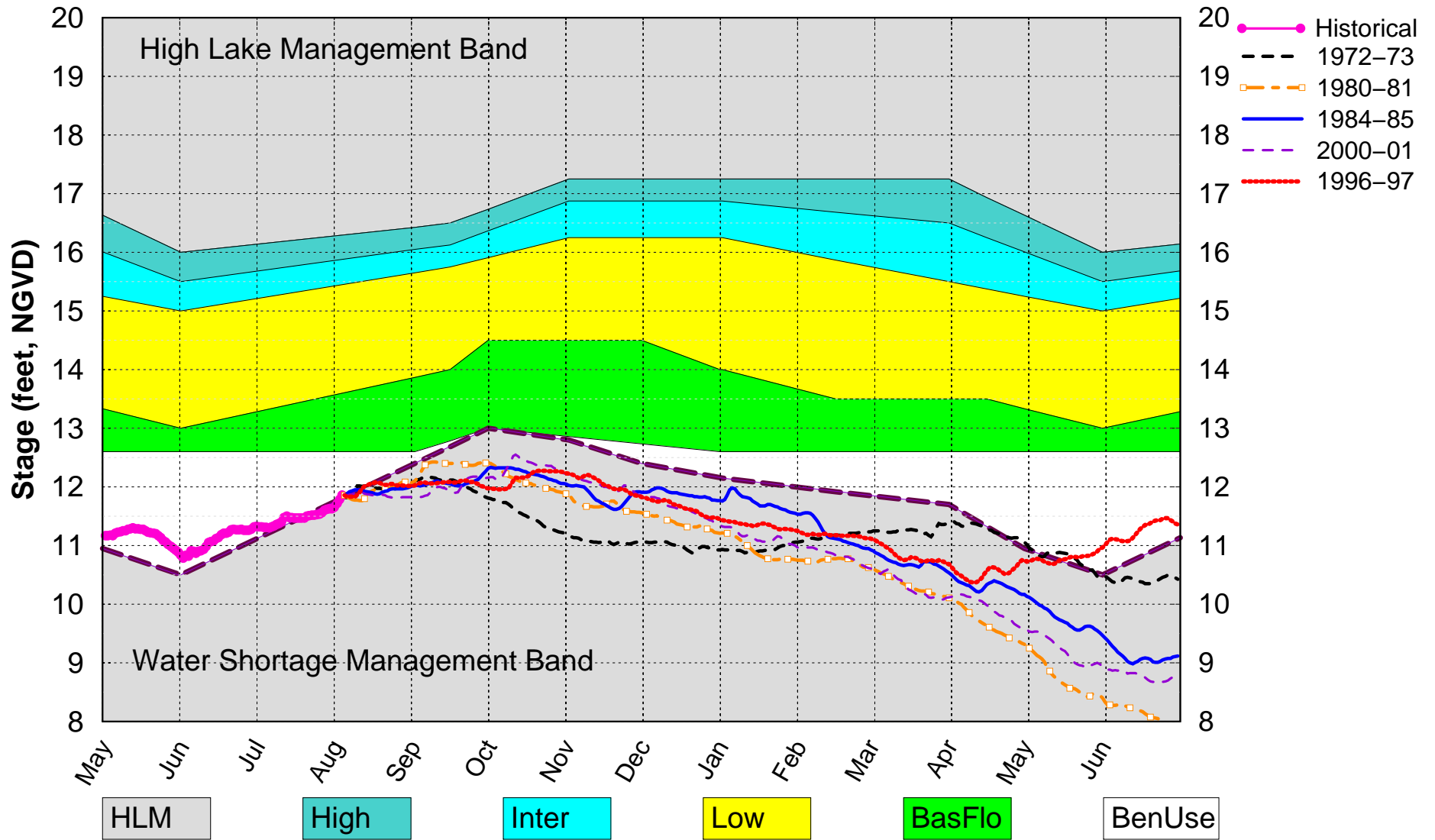
# Lake Okeechobee SFWMM Aug 2019 Position Analysis



(See assumptions on the Position Analysis Results website)

# Lake Okeechobee SFWMM Aug 2019 Position Analysis

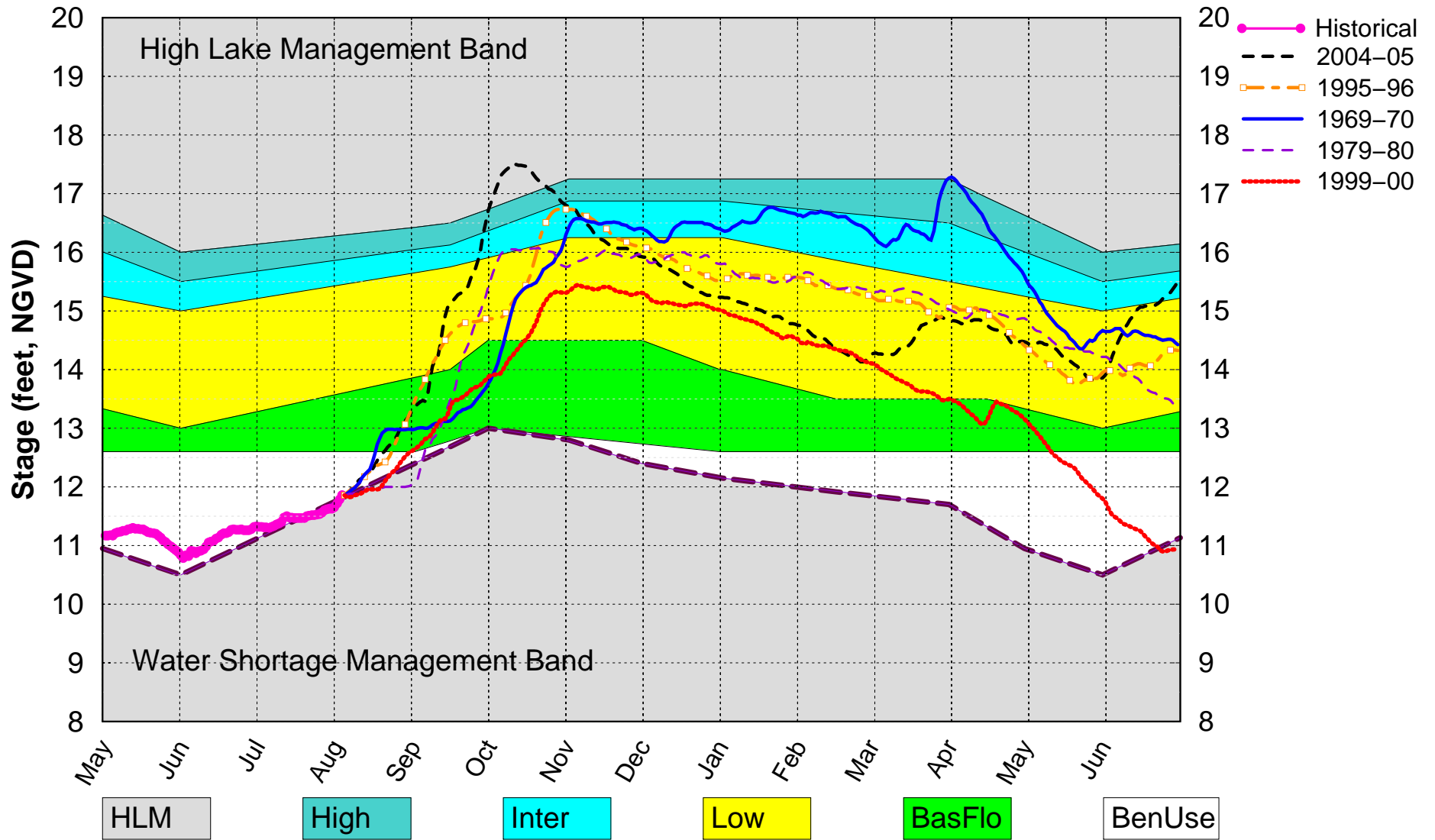
Dry Years Plot PA\_SLP1



(See assumptions on the Position Analysis Results website)

# Lake Okeechobee SFWMM Aug 2019 Position Analysis

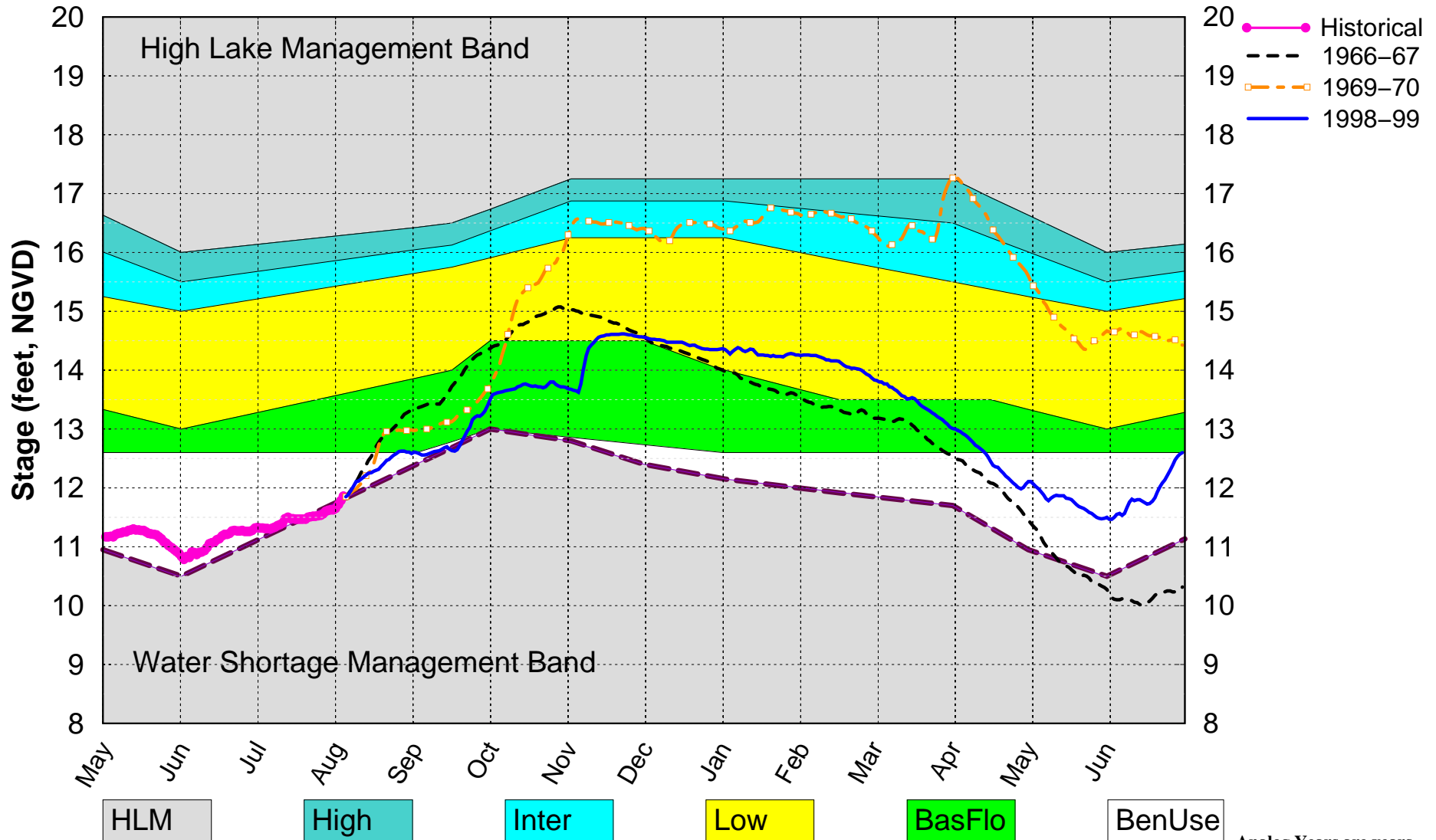
Wet Years Plot PA\_SLP1



(See assumptions on the Position Analysis Results website)

# Lake Okeechobee SFWMM July 2019 Position Analysis

AMO Warm / El Nino Analog Years Plot PA\_SLP1



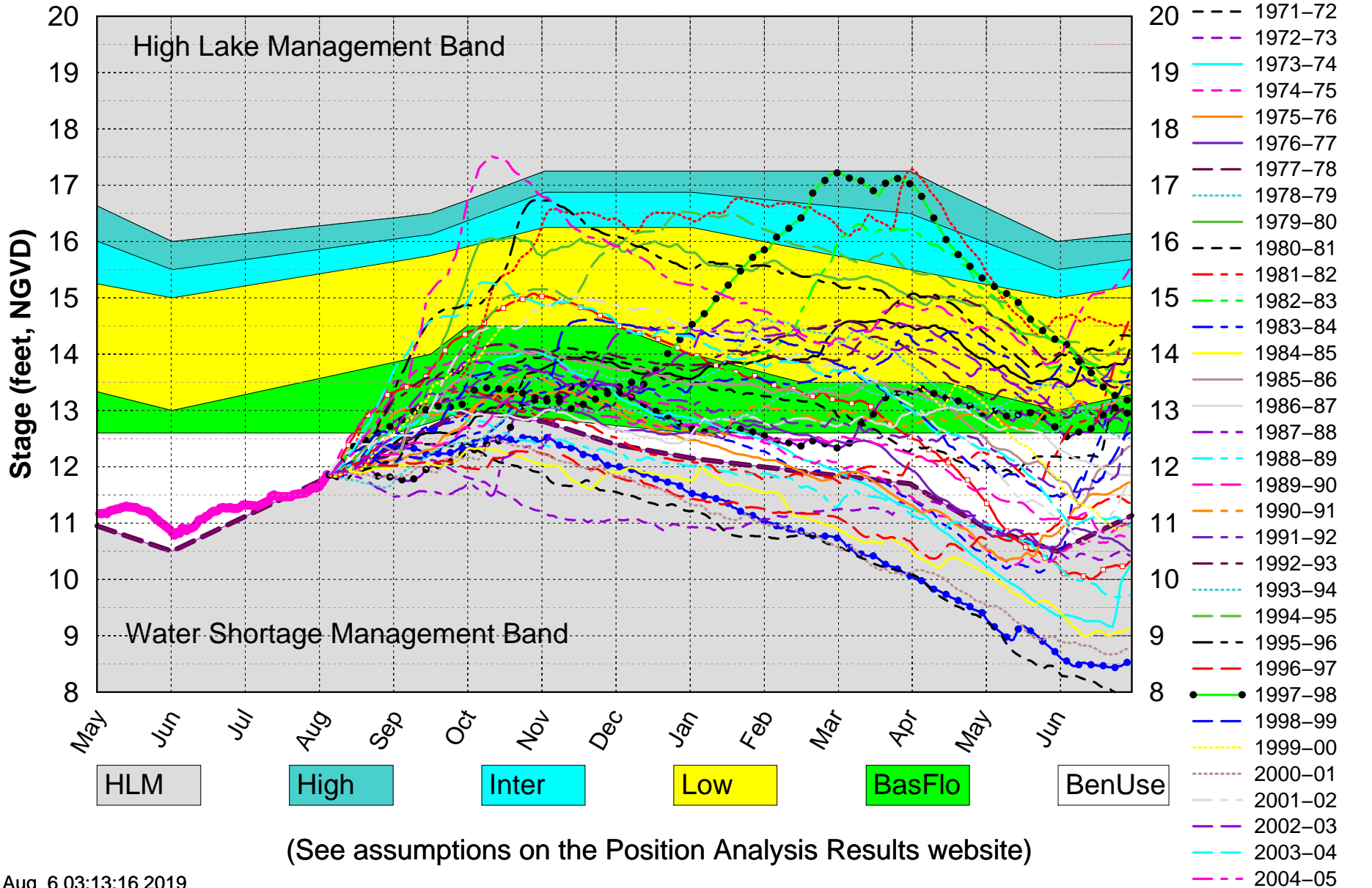
(See assumptions on the Position Analysis Results website)

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



# Lake Okeechobee SFWMM Aug 2019 Position Analysis

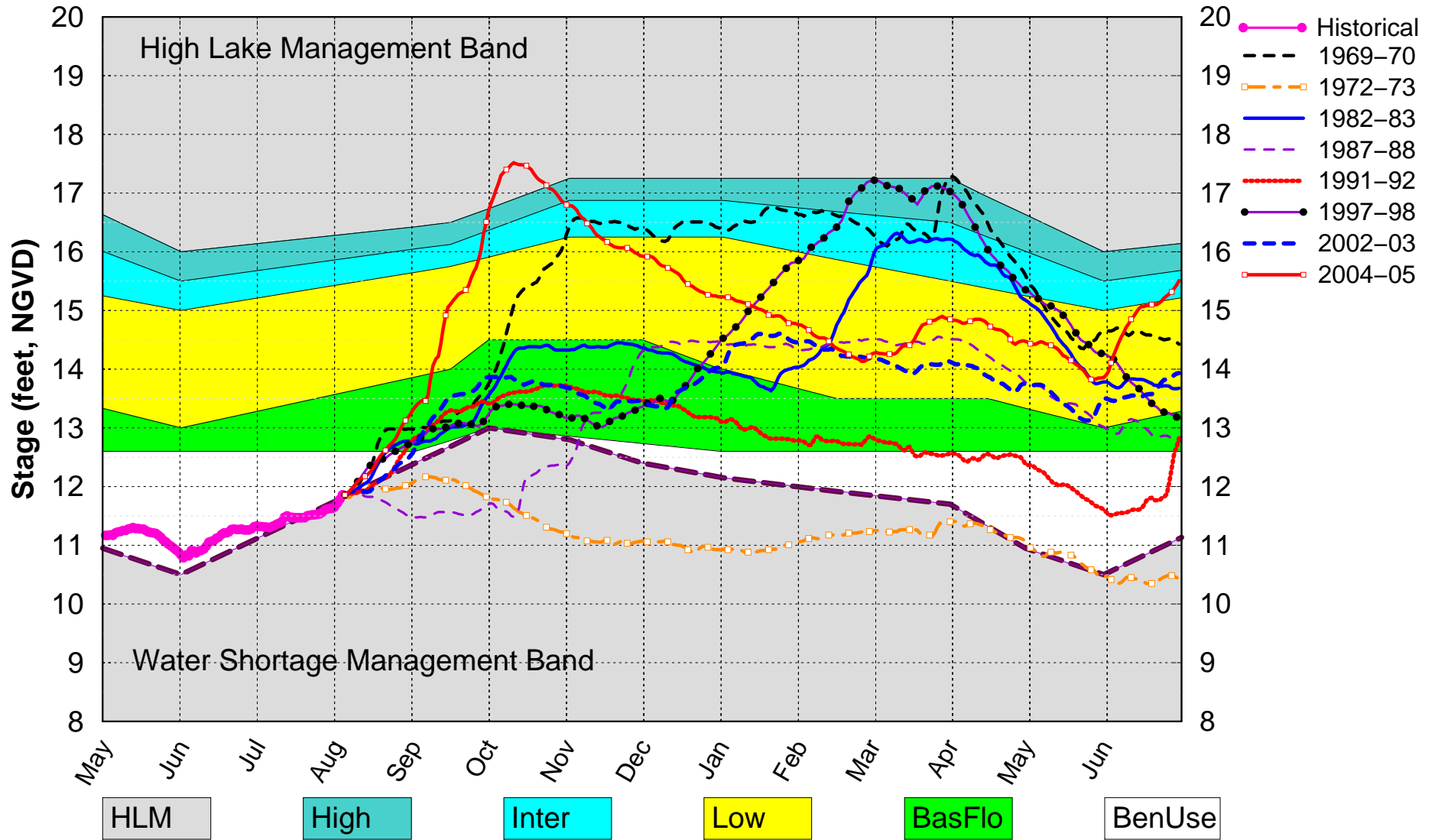
All Simulated Years Plot PA\_SLP1



(See assumptions on the Position Analysis Results website)

# Lake Okeechobee SFWMM Aug 2019 Position Analysis

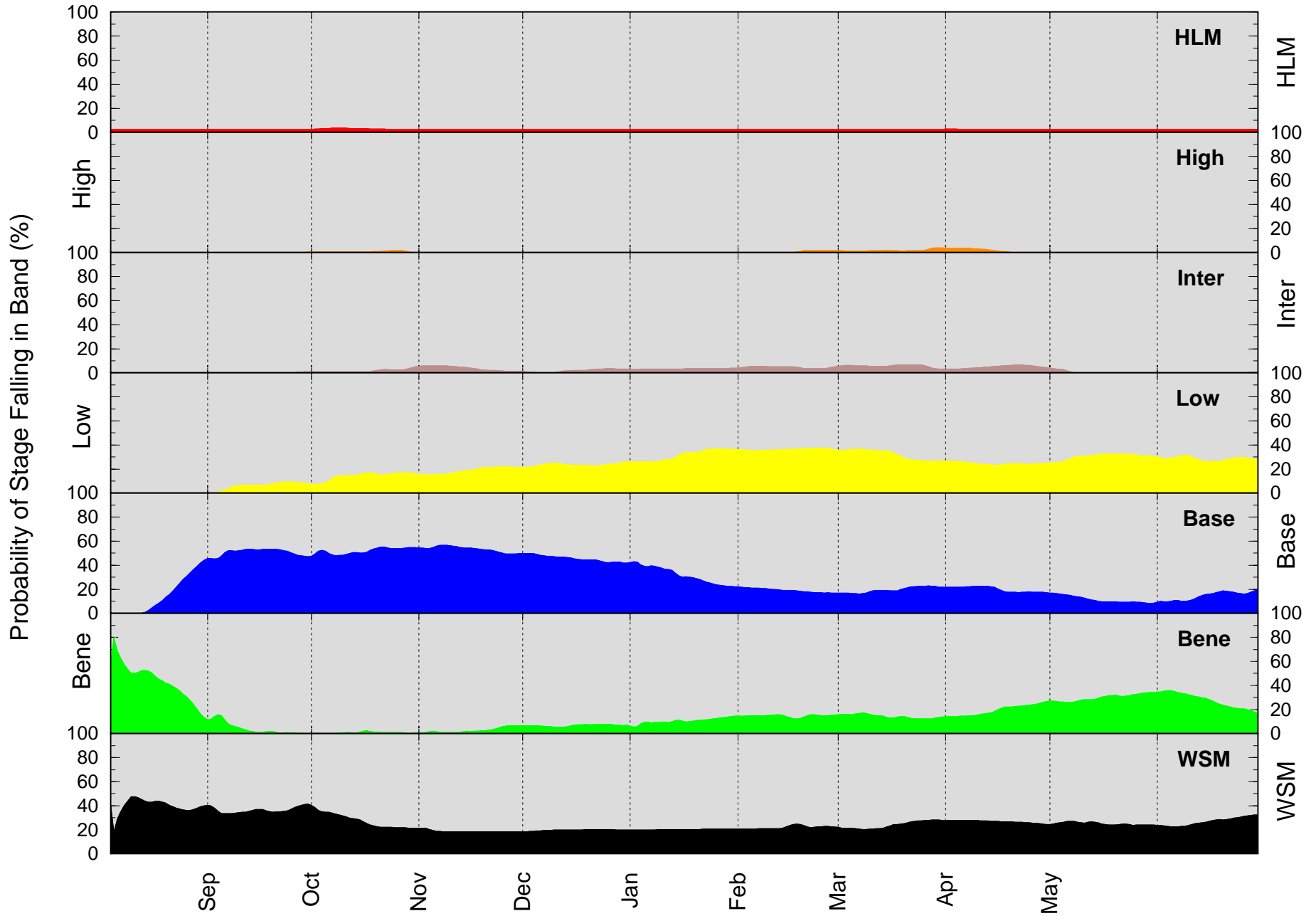
All El Nino Years Plot PA\_SLP1



(See assumptions on the Position Analysis Results website)

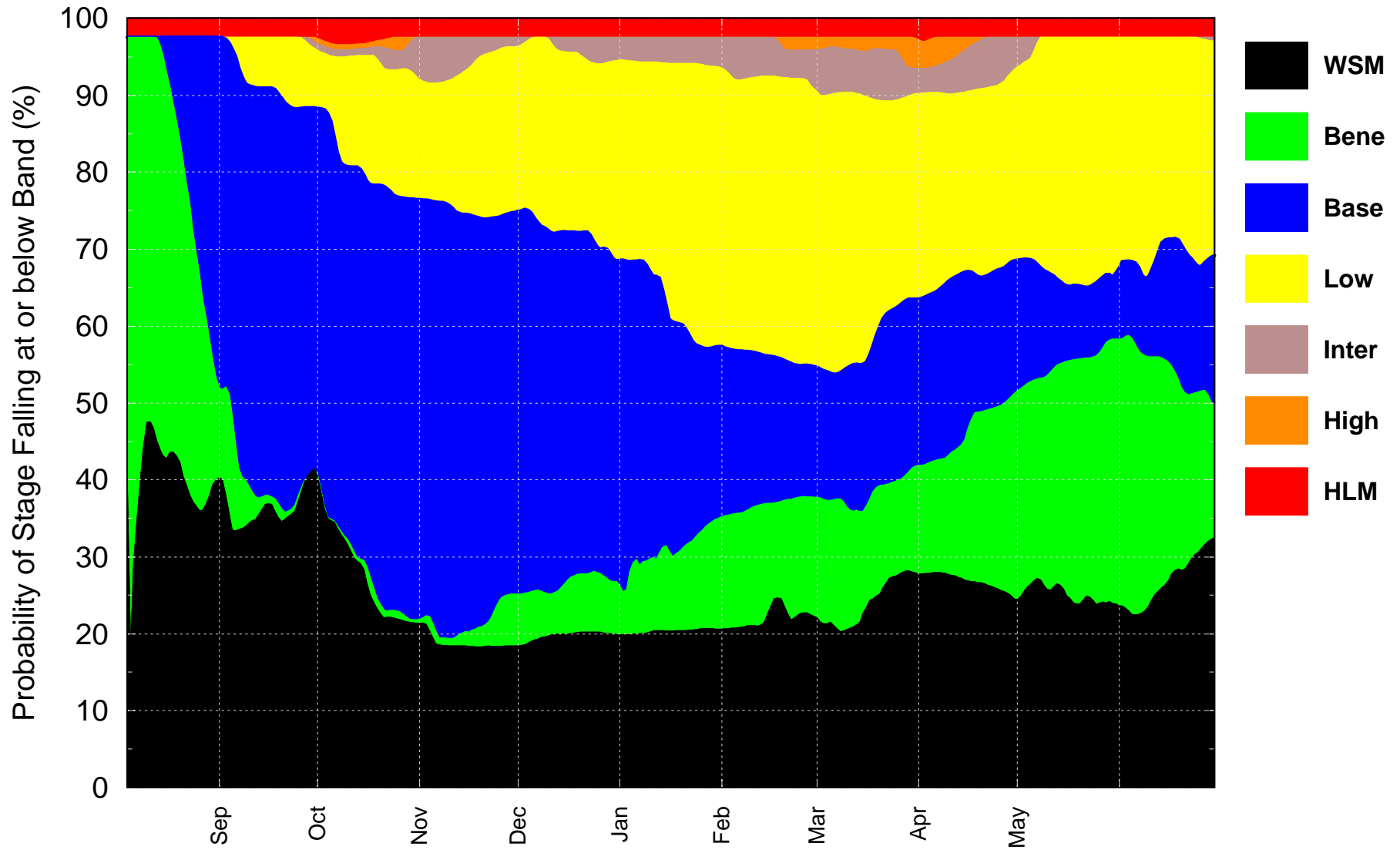
# Lake Okeechobee – Band Probabilities

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



# Lake Okeechobee – Probabilities for Operational Bands

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



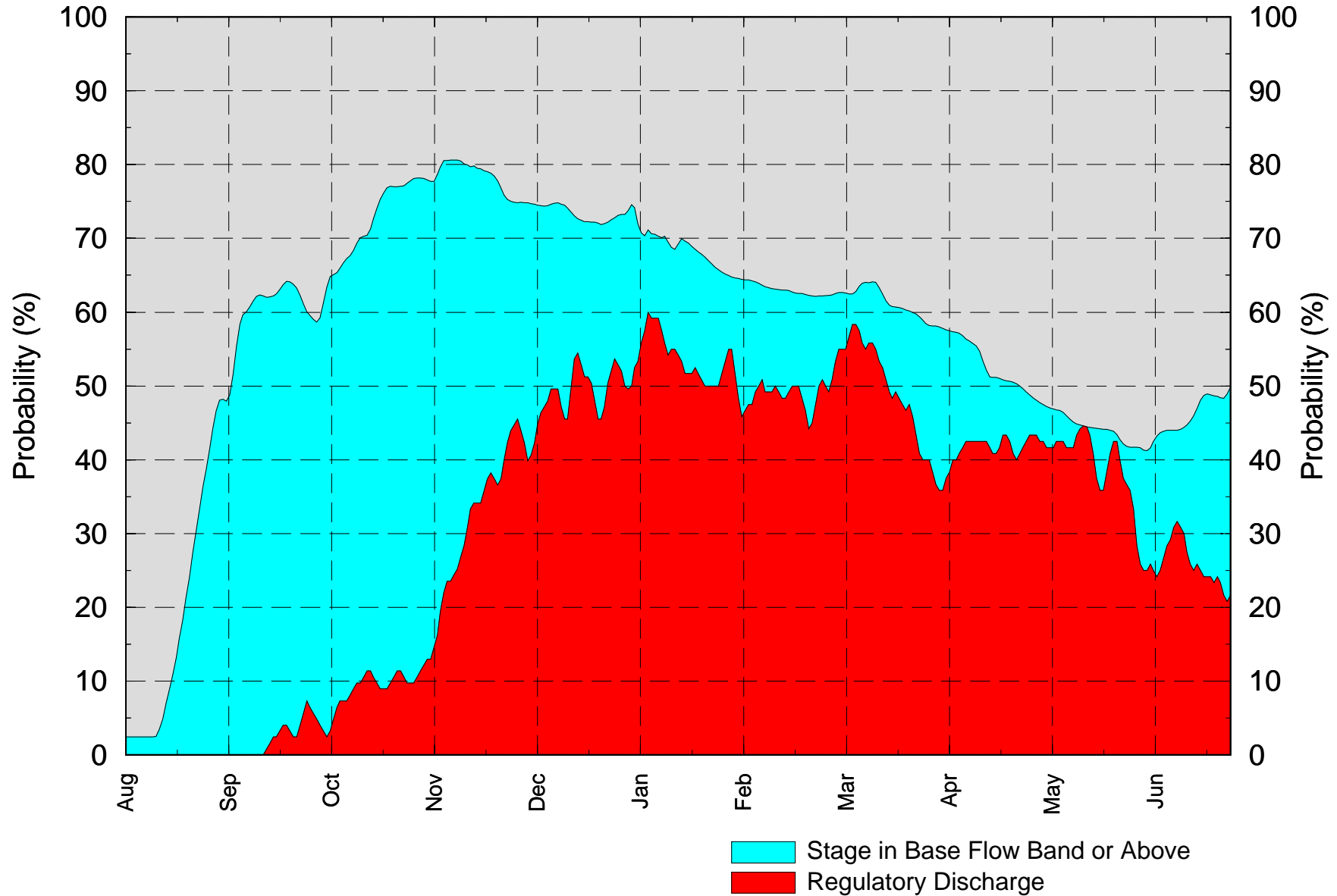
The width for each band gives the probability of stage falling in that band, as defined by the operational schedules.

Lake Okechobee Band Probabilities (%) at the Beginning of Each Month  
'(See assumptions on the Position Analysis Results website)'  
Initial Stage 11.28 ft. for 07/01/2019

Date	HLM	High	Inter	Low	Base	Bene	WSM
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	0.0	0.0	0.0	97.6
2019 09 01	2.4	0.0	0.0	0.0	45.6	11.7	40.3
2019 10 01	2.6	0.7	0.9	7.5	47.6	0.2	40.5
2019 11 01	2.4	-0.0	5.5	15.7	54.5	0.5	21.4
2019 12 01	2.4	-0.0	1.2	21.5	49.7	6.7	18.4
2020 01 01	2.4	-0.0	3.0	26.0	42.3	6.3	19.9
2020 02 01	2.4	-0.0	4.0	36.2	22.1	14.6	20.6
2020 03 01	2.4	1.6	5.5	35.8	16.9	15.7	22.1
2020 04 01	2.8	3.7	3.2	26.7	21.6	14.1	27.8
2020 05 01	2.4	-0.0	3.9	25.1	17.0	27.1	24.5
2020 06 01	2.4	-0.0	0.0	30.0	9.3	34.7	23.6

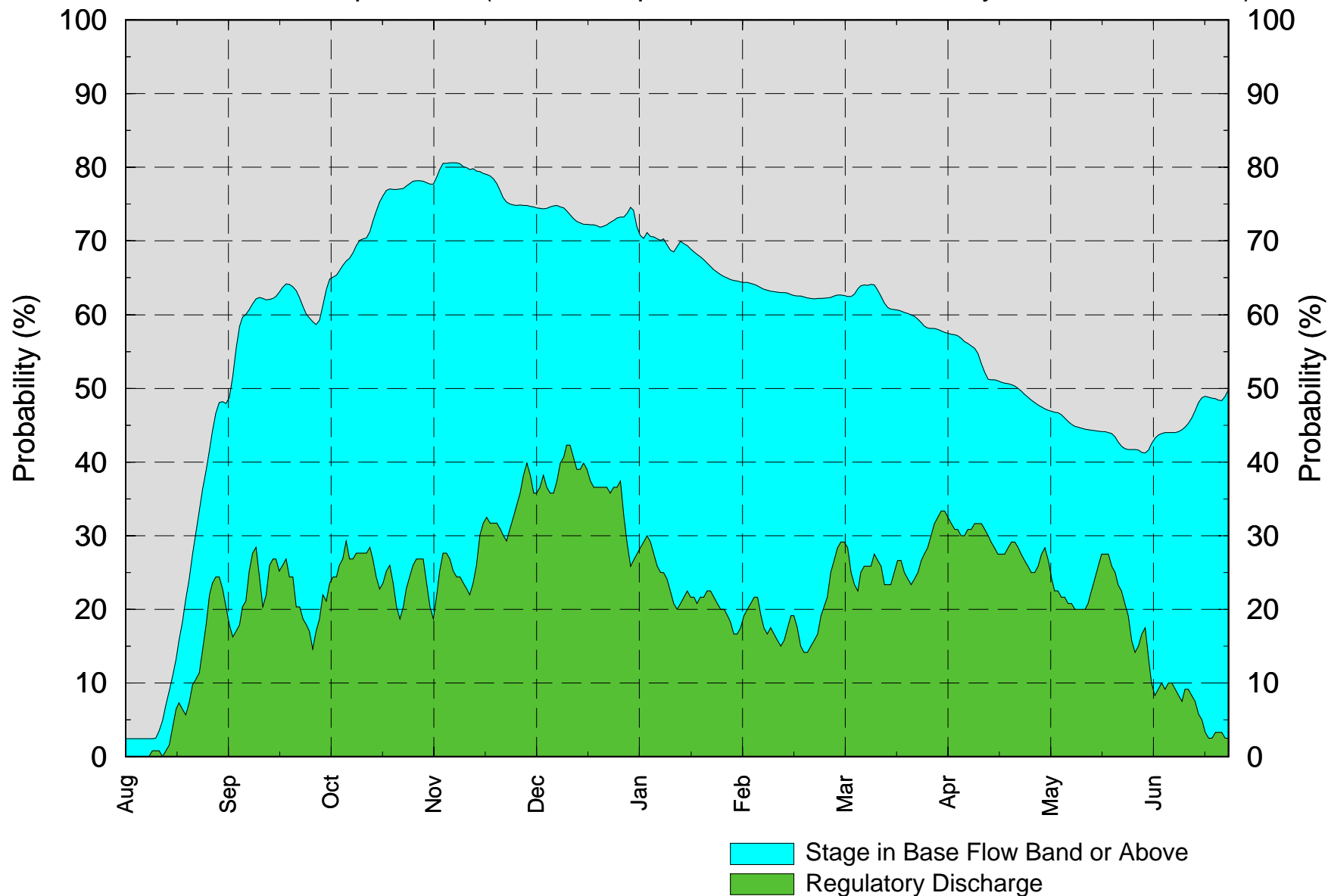
# Lake Okeechobee – LORS2008 Releases to the Estuaries

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



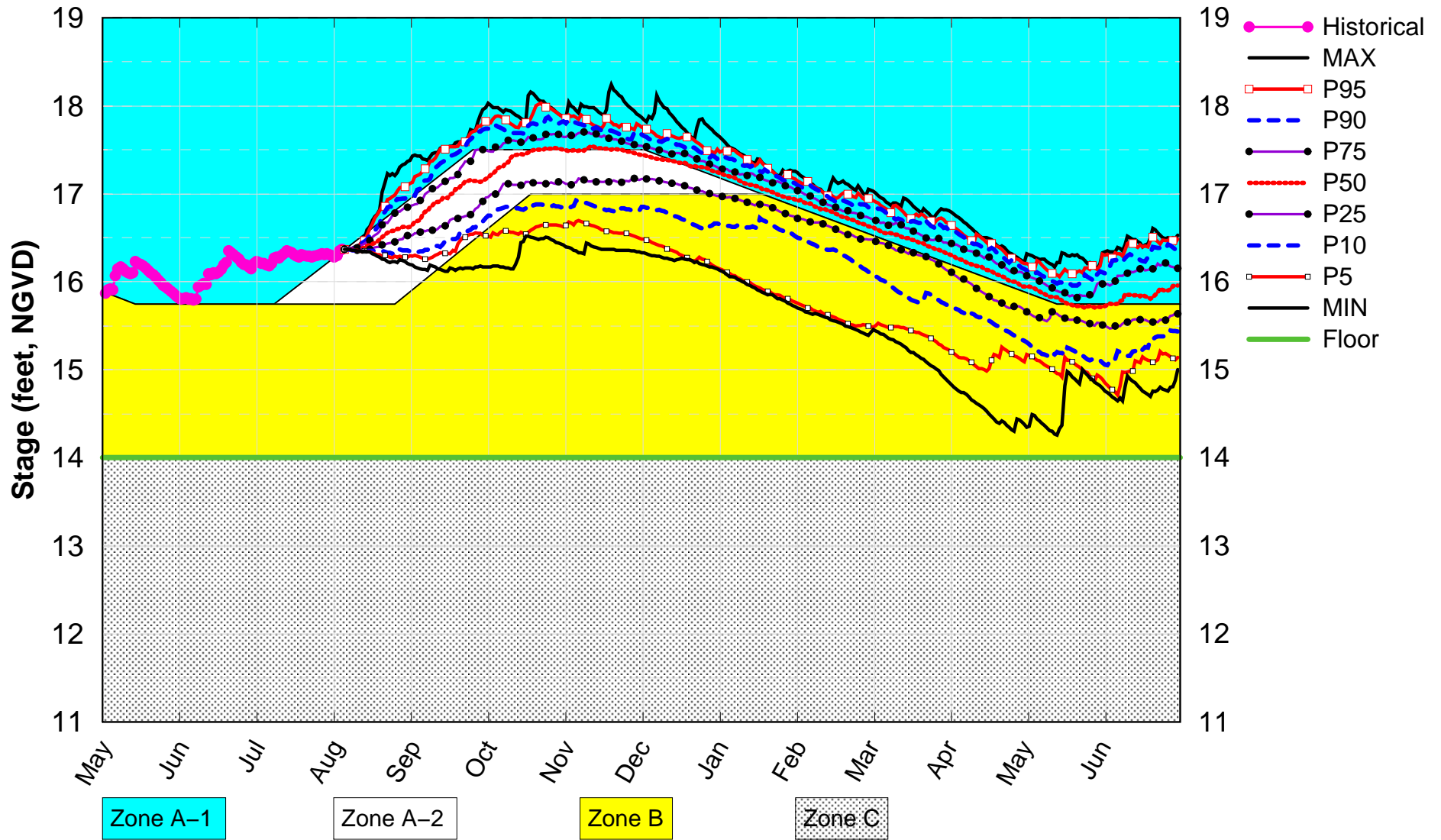
# Lake Okeechobee – LORS2008 Releases to the WCA's

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



# WCA1 SFWMM Aug 2019 Position Analysis

Percentiles PA\_SLP1

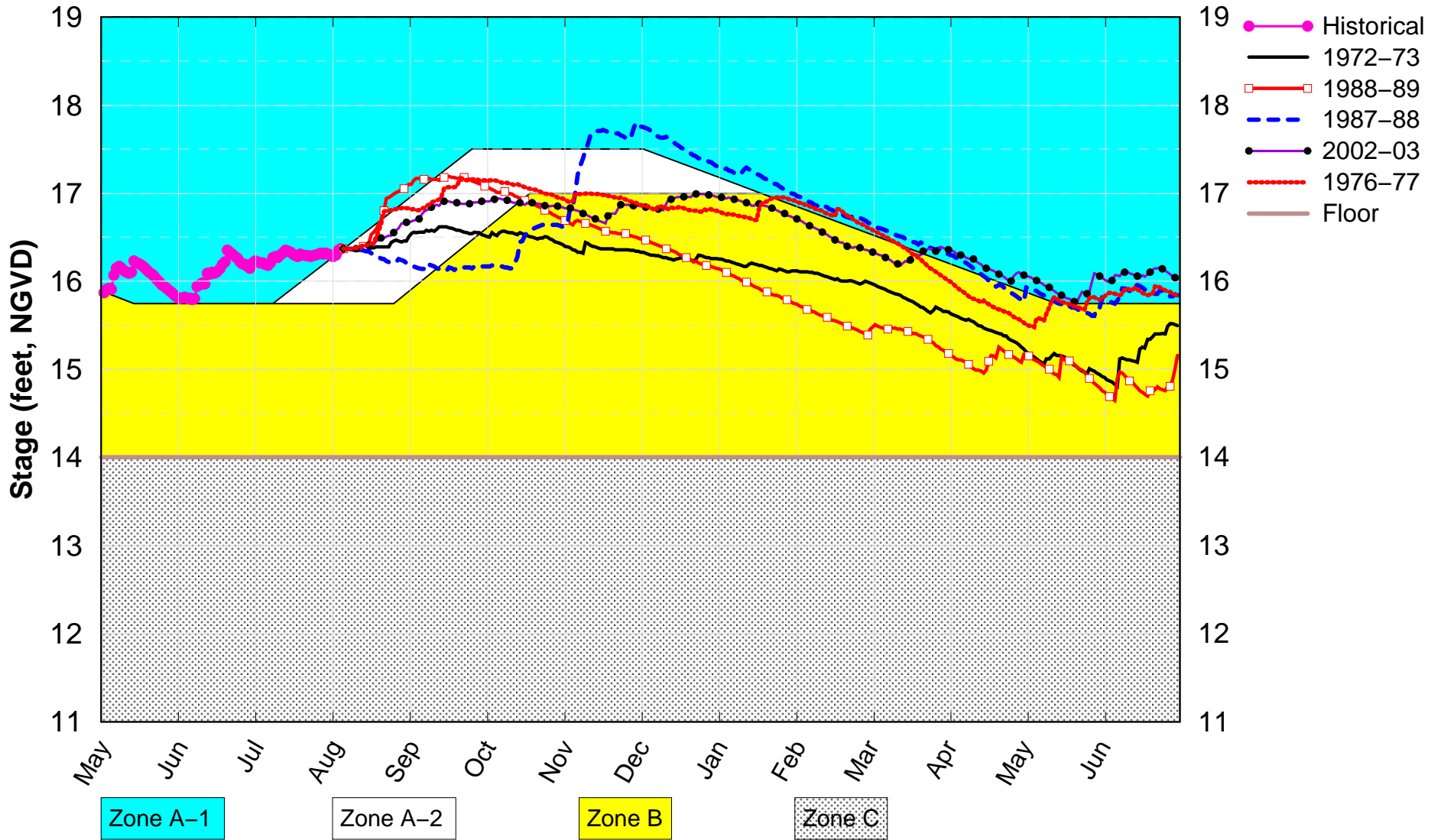


(See assumptions on the Position Analysis Results website)



# WCA1 SFWMM Aug 2019 Position Analysis

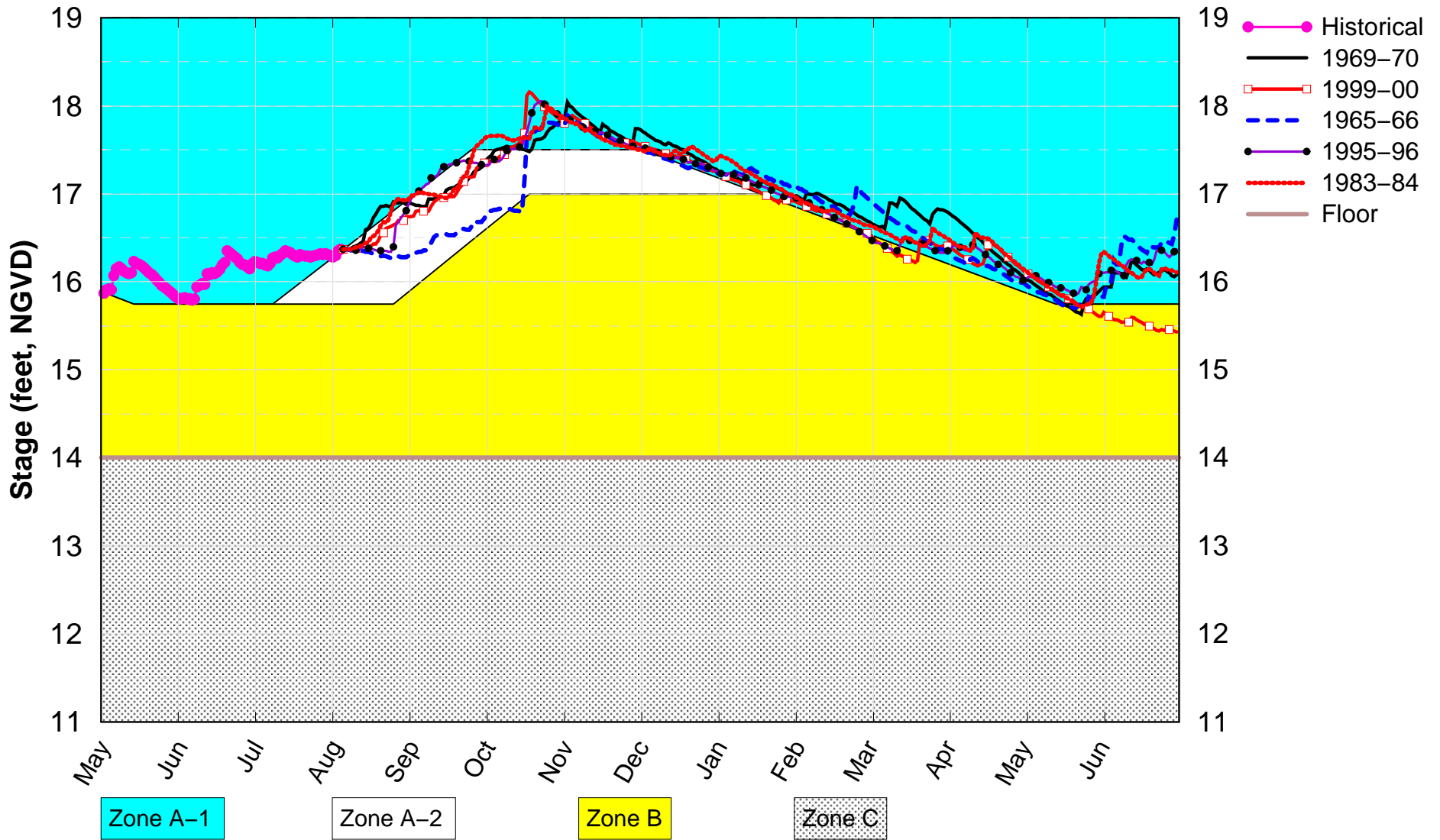
Dry Years Plot PA\_SLP1



(See assumptions on the Position Analysis Results website)

# WCA1 SFWMM Aug 2019 Position Analysis

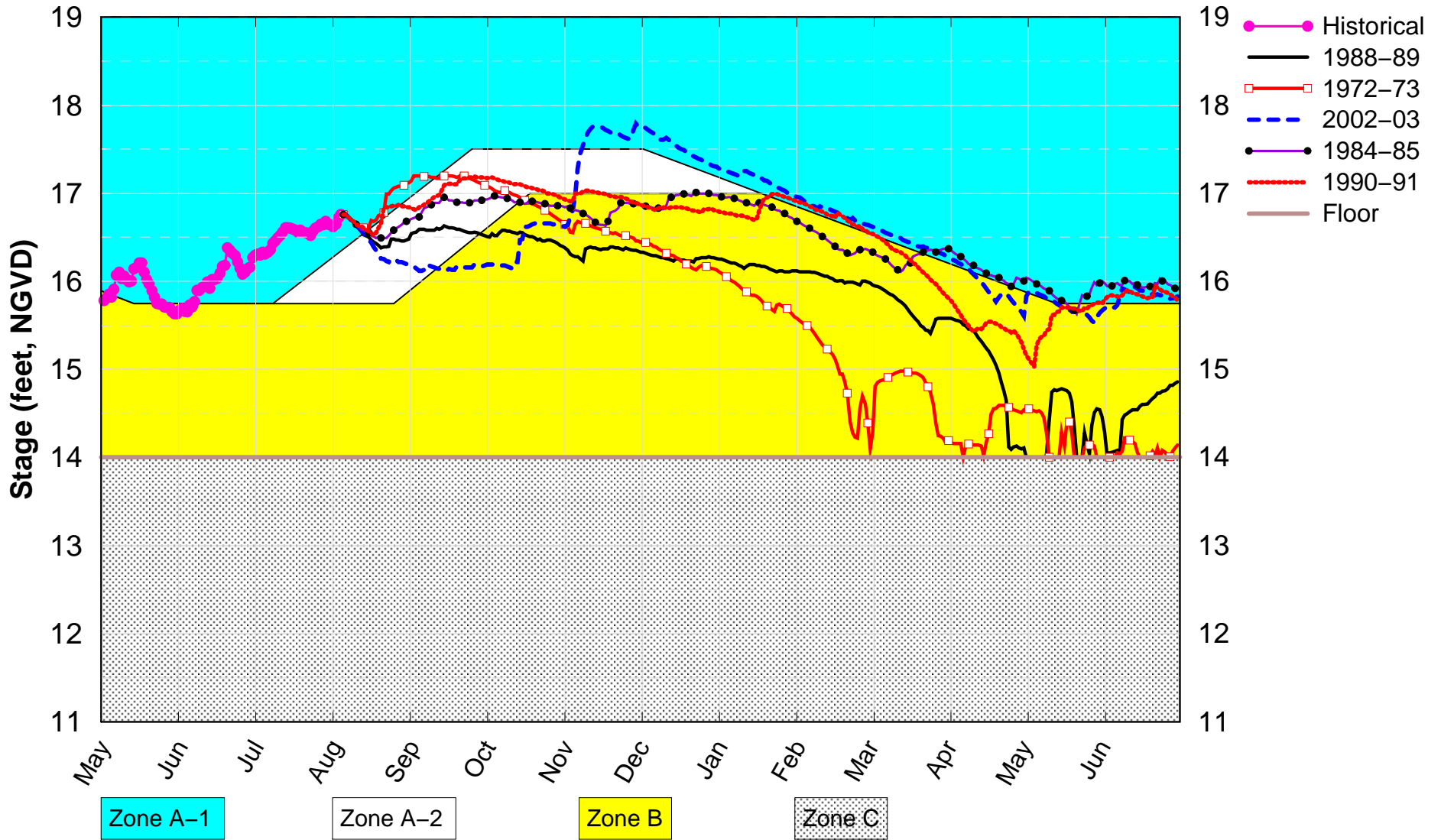
Wet Years Plot PA\_SLP1



(See assumptions on the Position Analysis Results website)

# CA1 Canal SFWMM Aug 2019 Position Analysis

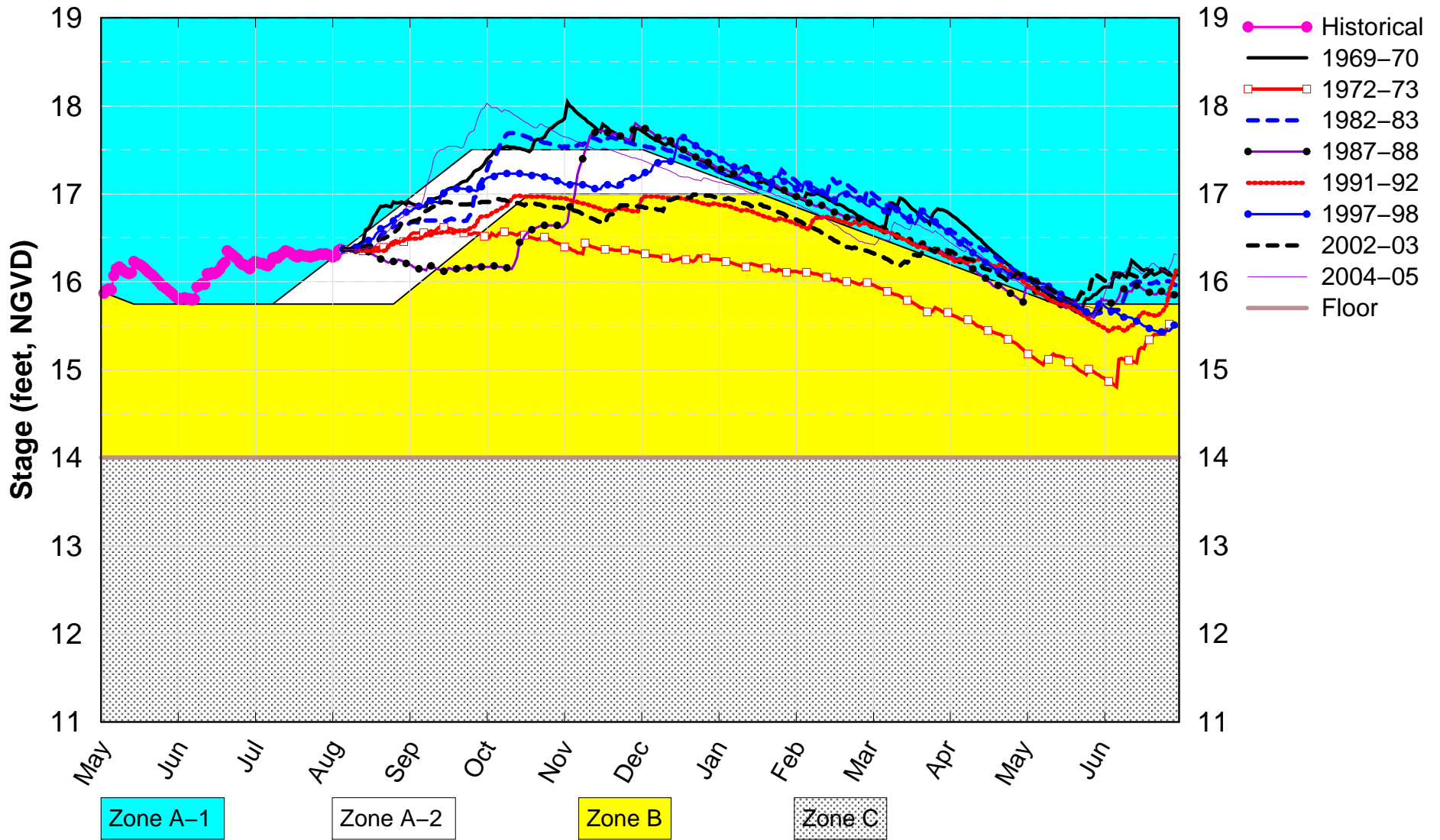
PA\_SLP1 Dry Years Plot



(See assumptions on the Position Analysis Results website)

# WCA1 SFWMM Aug 2019 Position Analysis

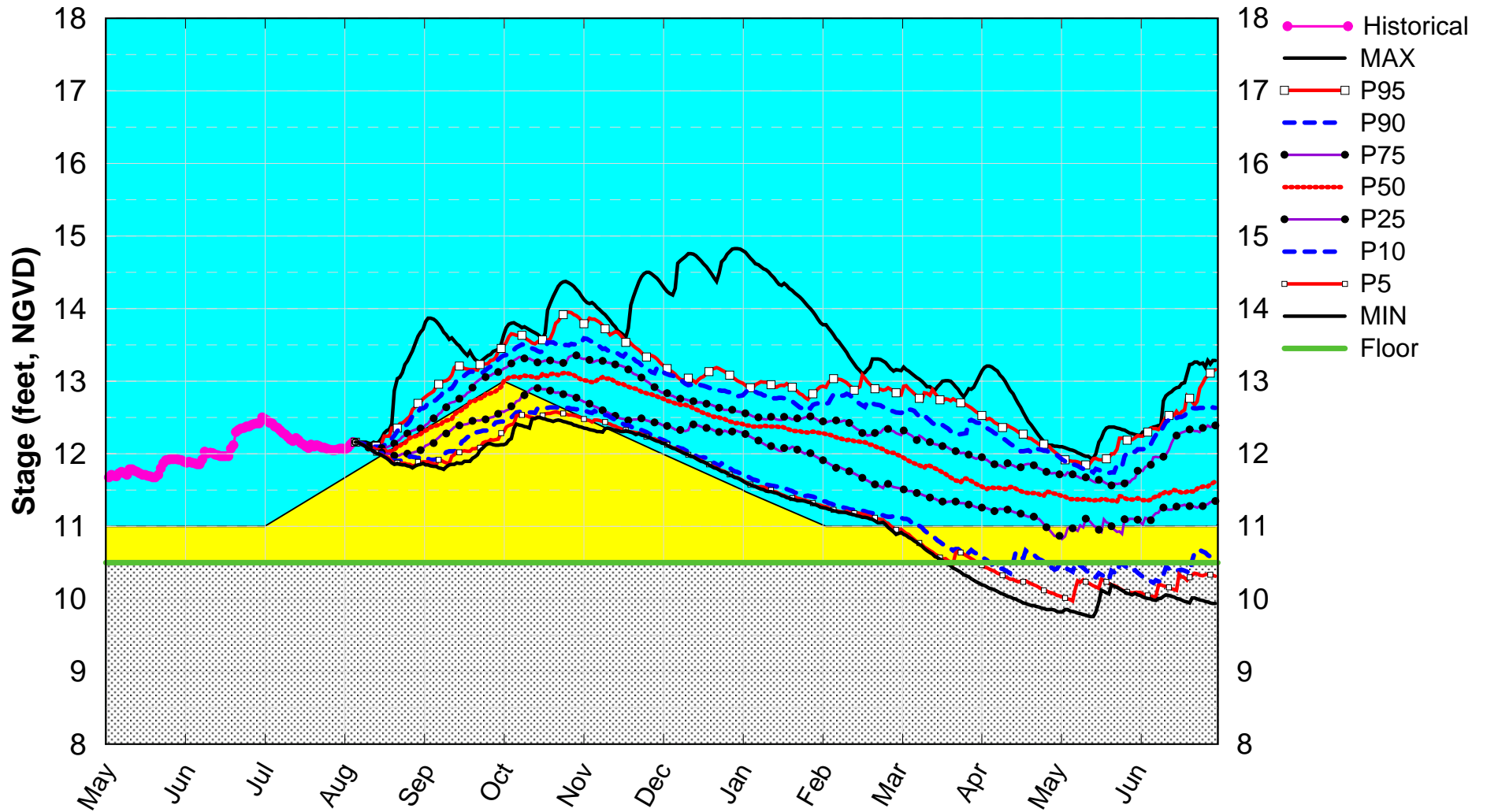
All El Nino Years Plot PA\_SLP1



(See assumptions on the Position Analysis Results website)

# WCA2A SFWMM Aug 2019 Position Analysis

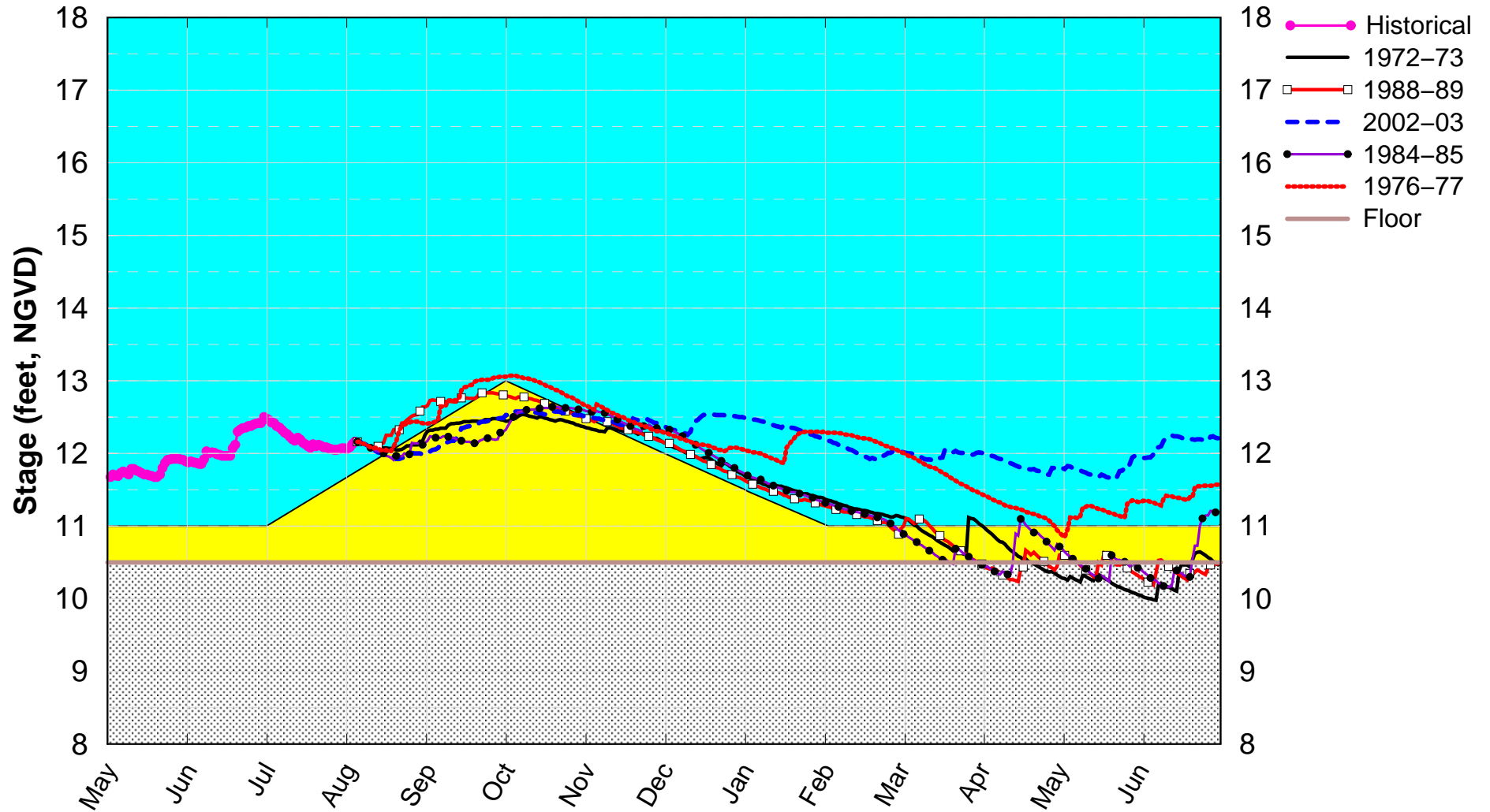
Percentiles PA\_SLP1



(See assumptions on the Position Analysis Results website)

# WCA2A SFWMM Aug 2019 Position Analysis

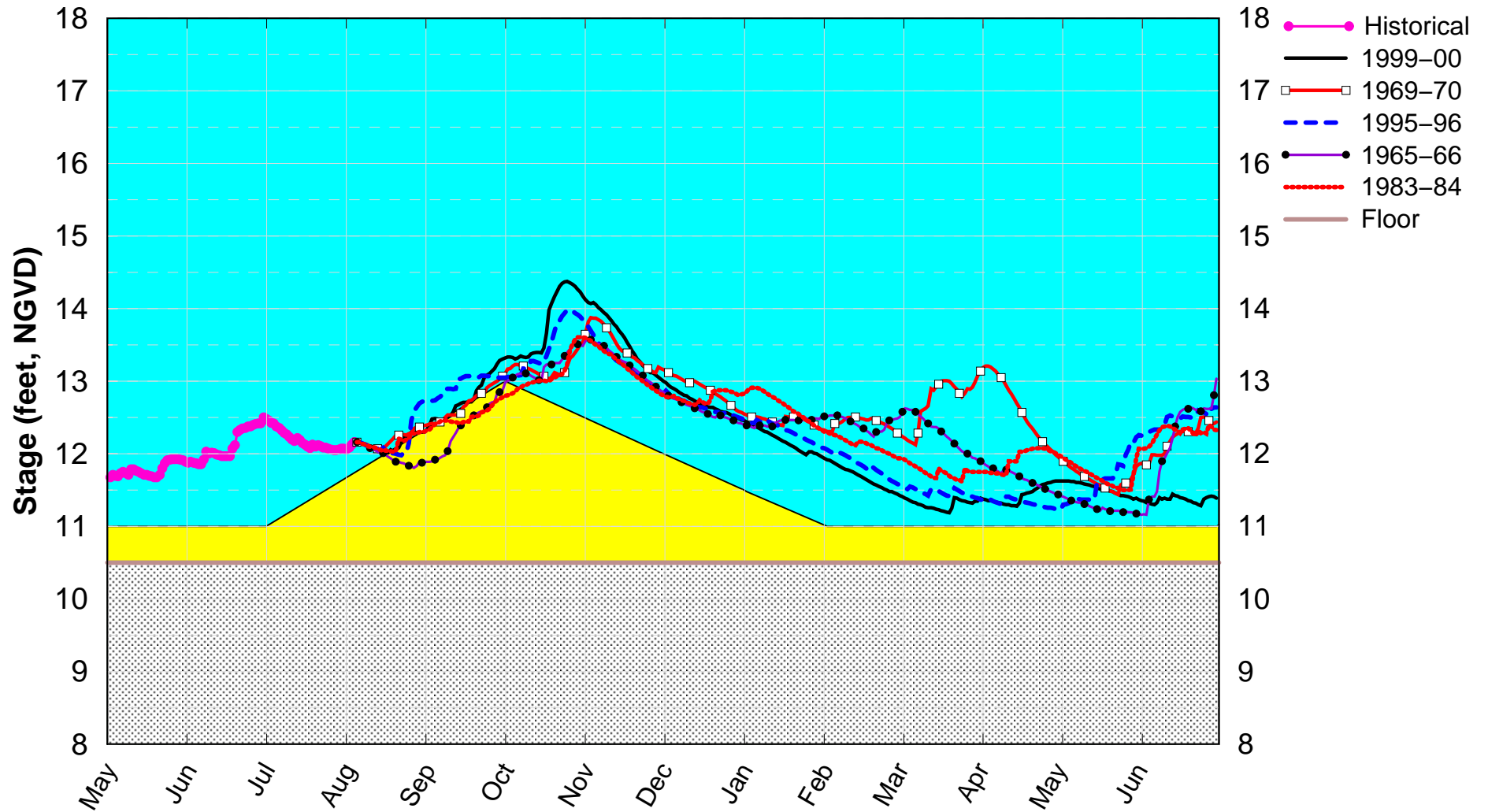
Dry Years Plot PA\_SLP1



(See assumptions on the Position Analysis Results website)

# WCA2A SFWMM Aug 2019 Position Analysis

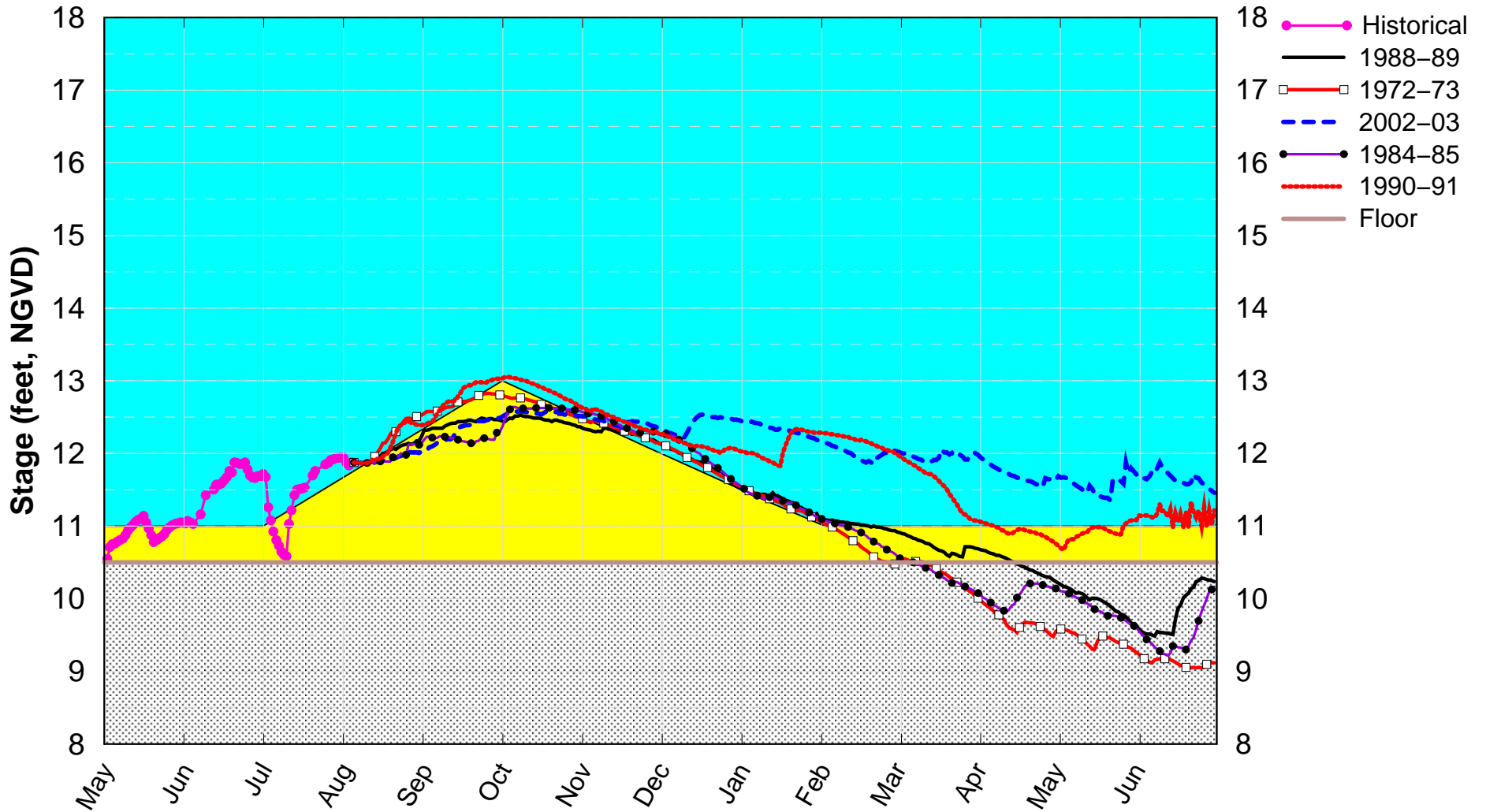
Wet Years Plot PA\_SLP1



(See assumptions on the Position Analysis Results website)

# L38 Canal SFWMM Aug 2019 Position Analysis

PA\_SLP1 Dry Years Plot

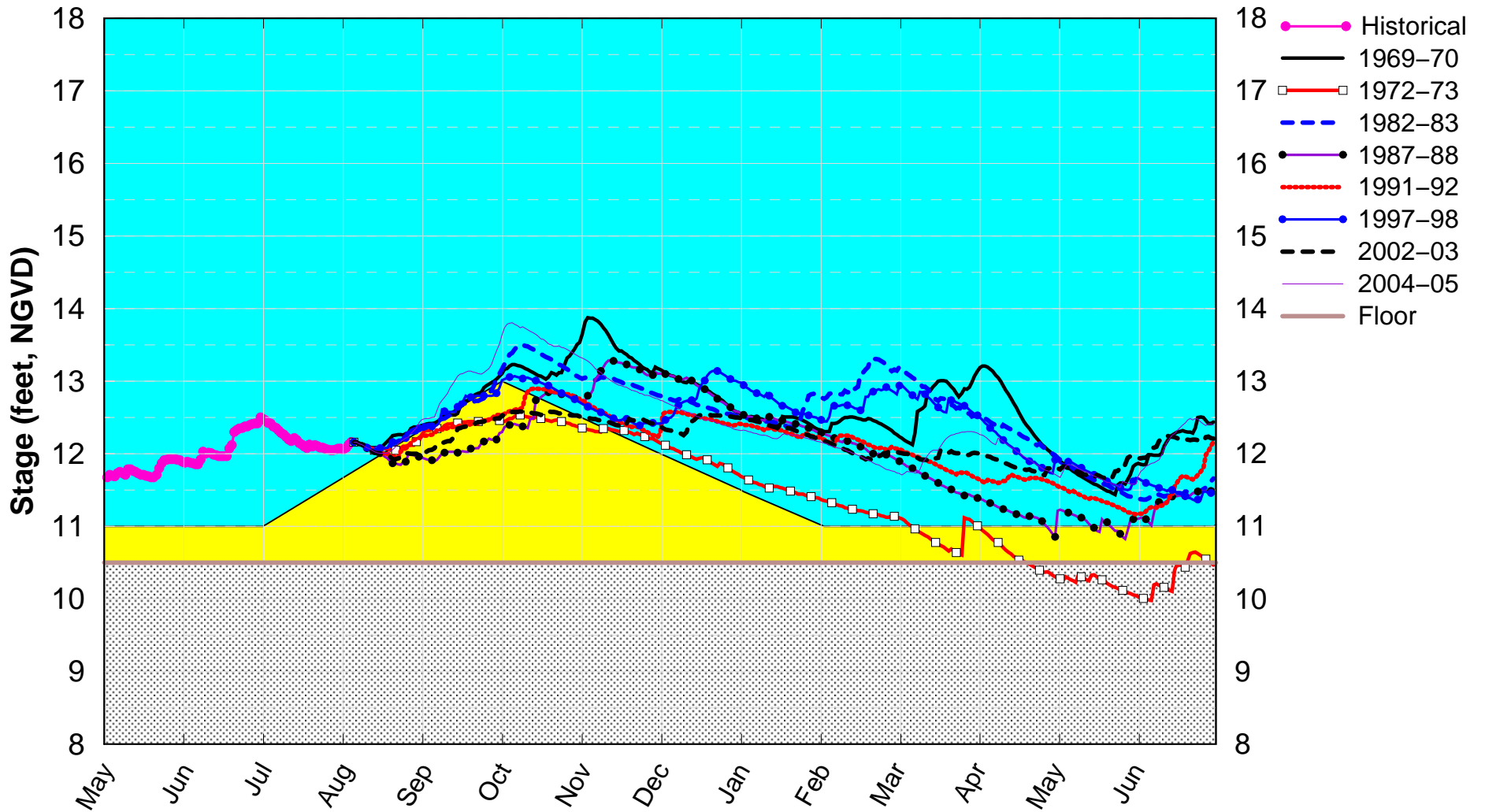


(See assumptions on the Position Analysis Results website)



# WCA2A SFWMM Aug 2019 Position Analysis

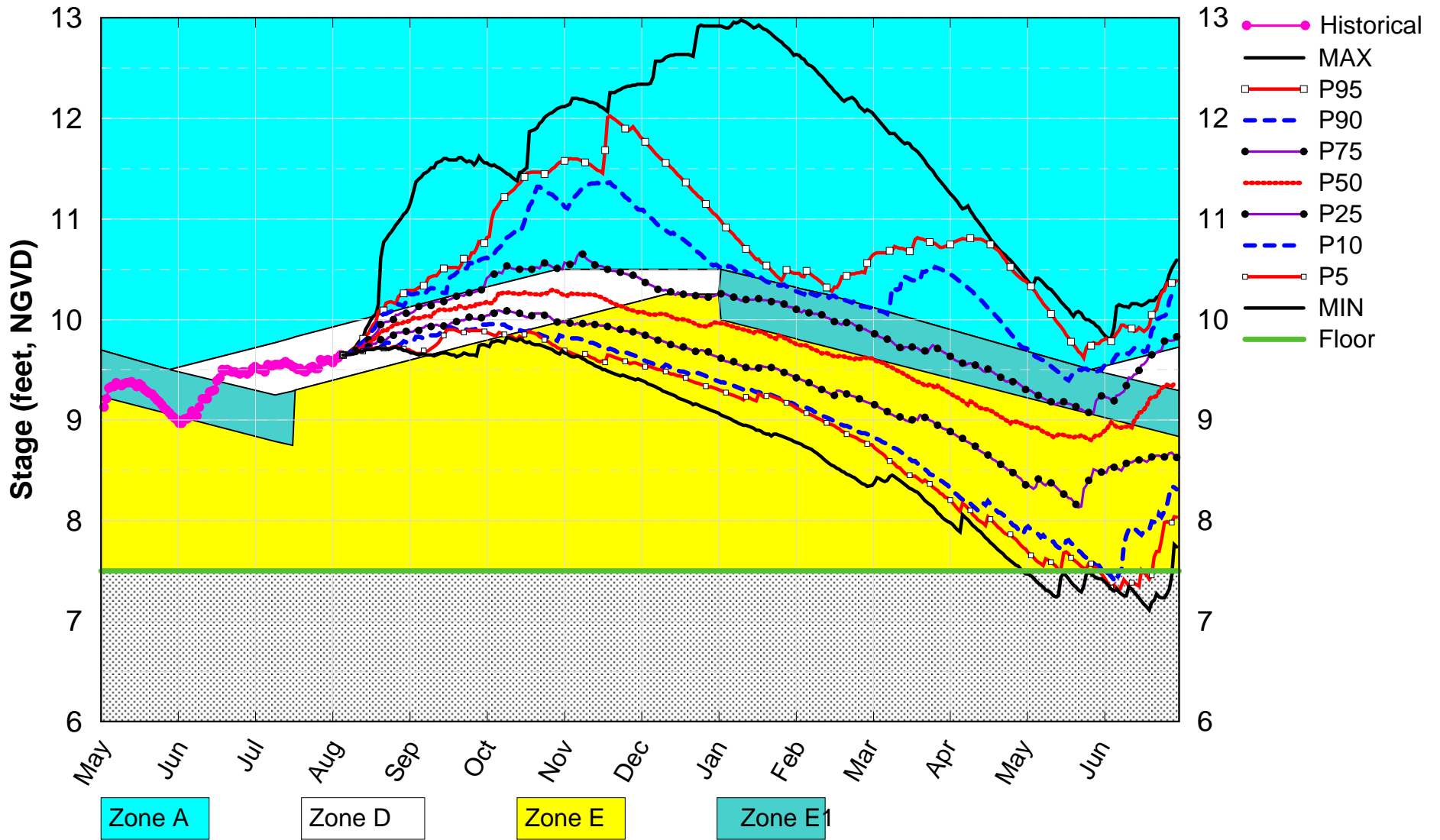
All El Nino Years Plot PA\_SLP1



(See assumptions on the Position Analysis Results website)

# WCA3A SFWMM Aug 2019 Position Analysis

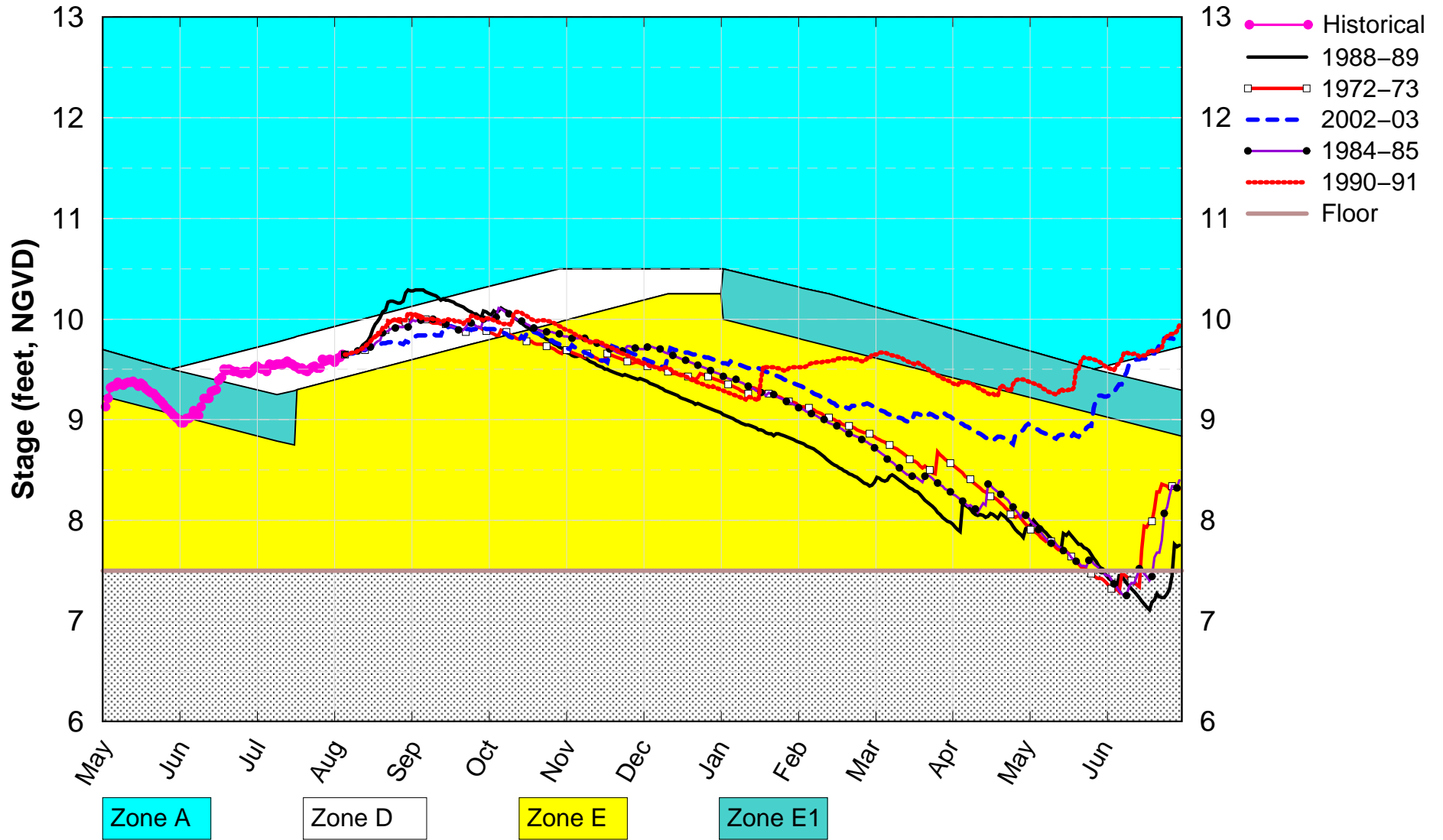
Percentiles PA\_SLP1



(See assumptions on the Position Analysis Results website)

# WCA3A SFWMM Aug 2019 Position Analysis

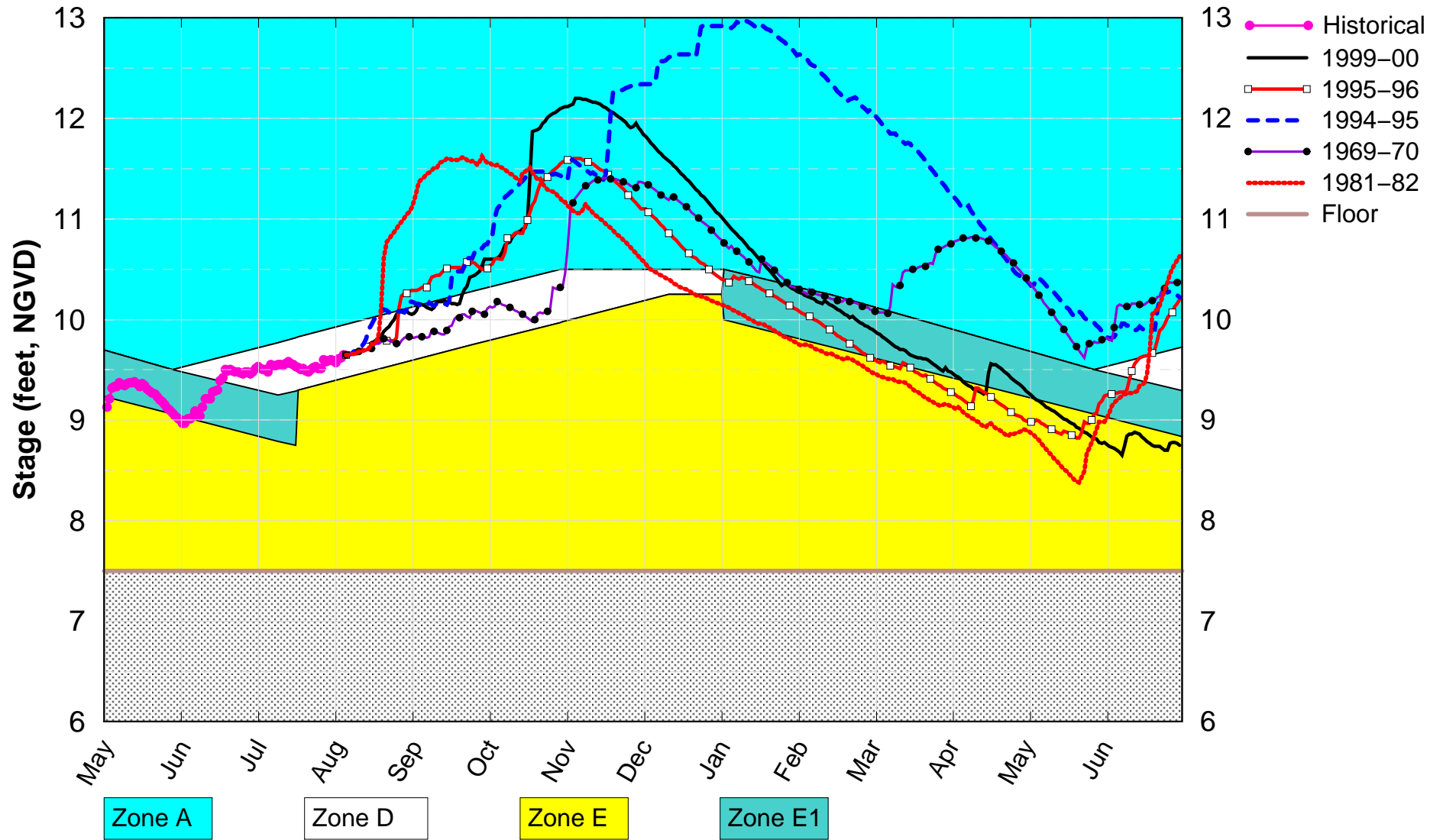
Dry Years Plot PA\_SLP1



(See assumptions on the Position Analysis Results website)

# WCA3A SFWMM Aug 2019 Position Analysis

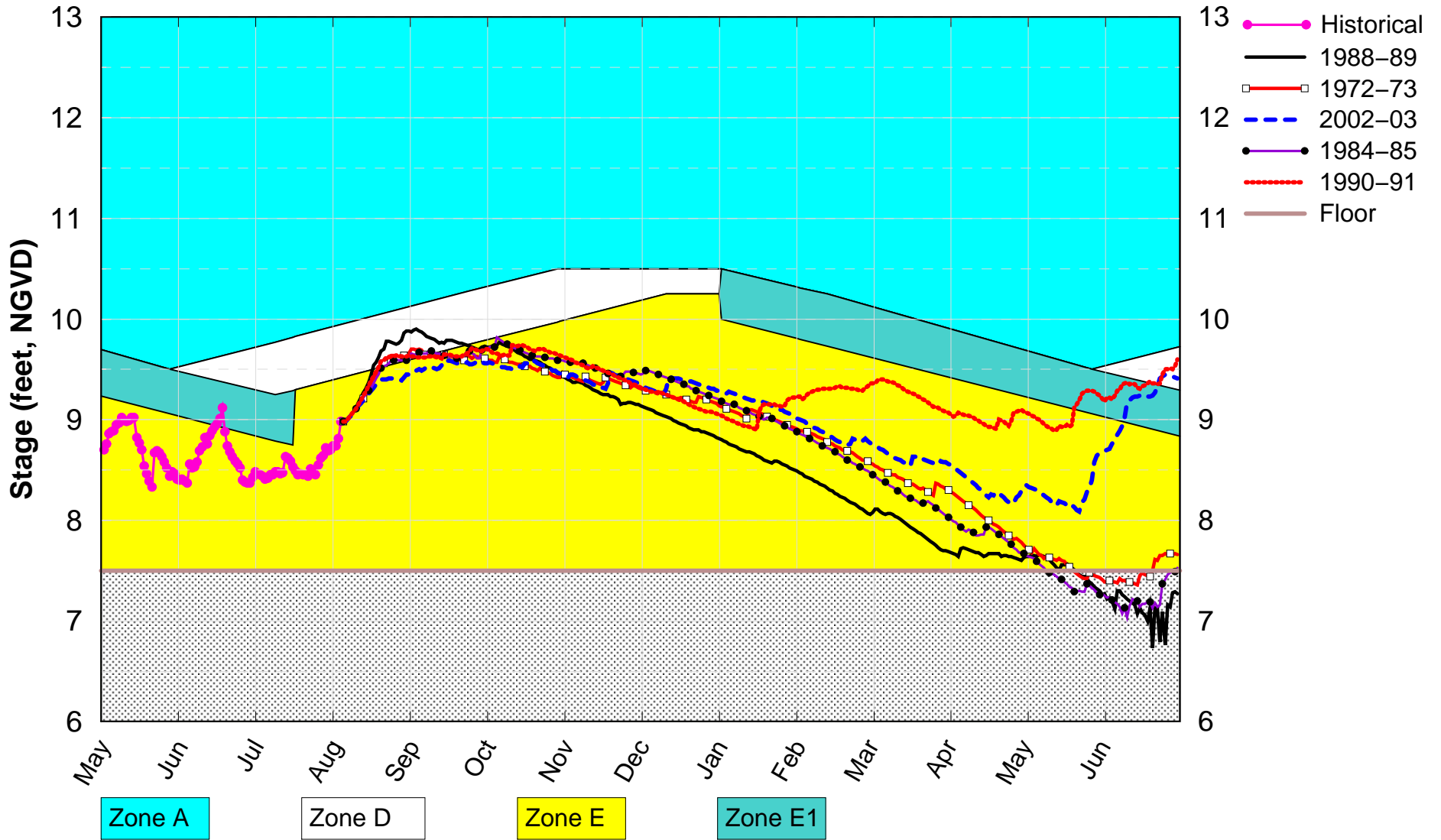
Wet Years Plot PA\_SLP1



(See assumptions on the Position Analysis Results website)

# CA3 Canal SFWMM Aug 2019 Position Analysis

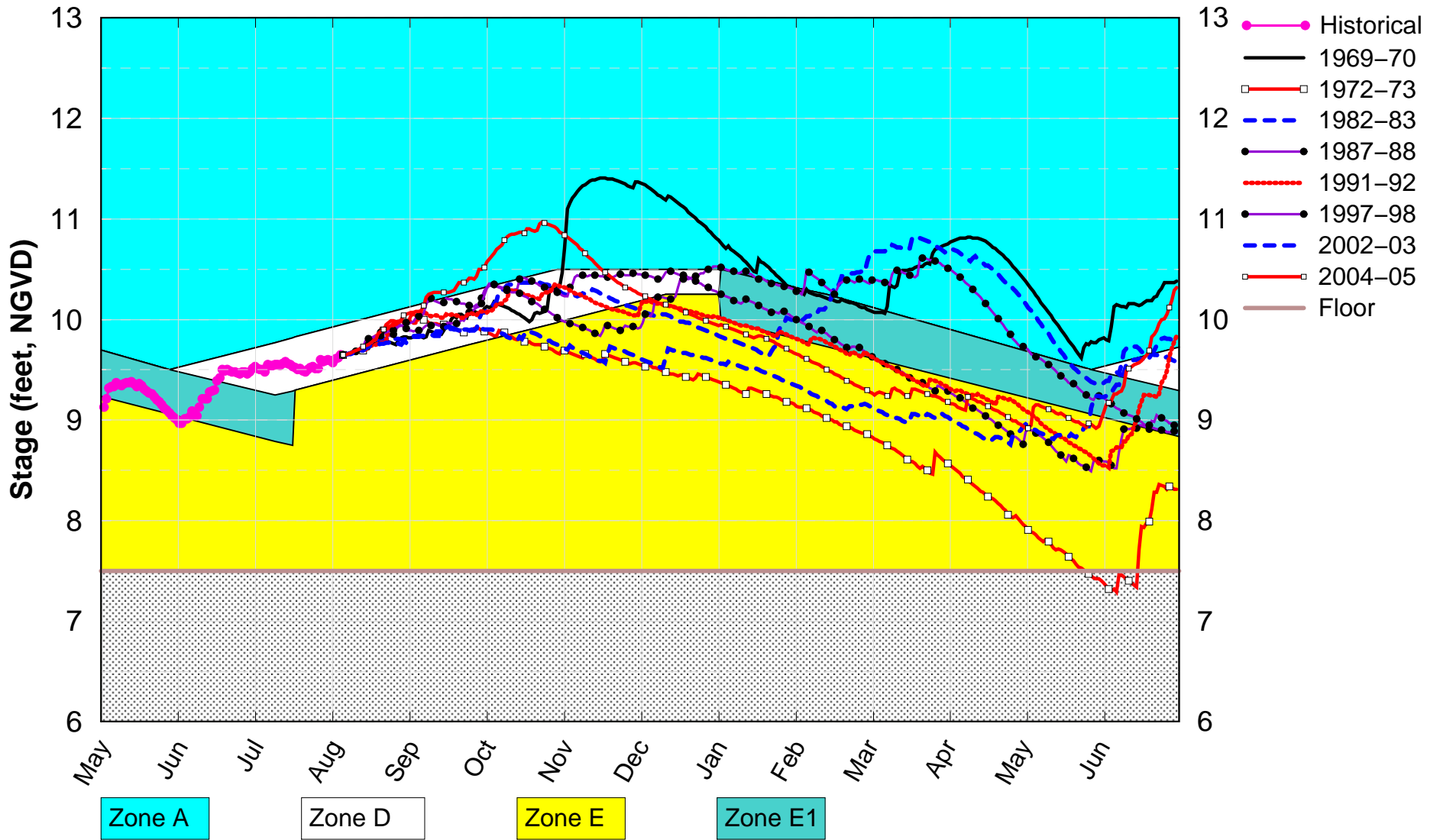
PA\_SLP1 Dry Years Plot



(See assumptions on the Position Analysis Results website)

# WCA3A SFWMM Aug 2019 Position Analysis

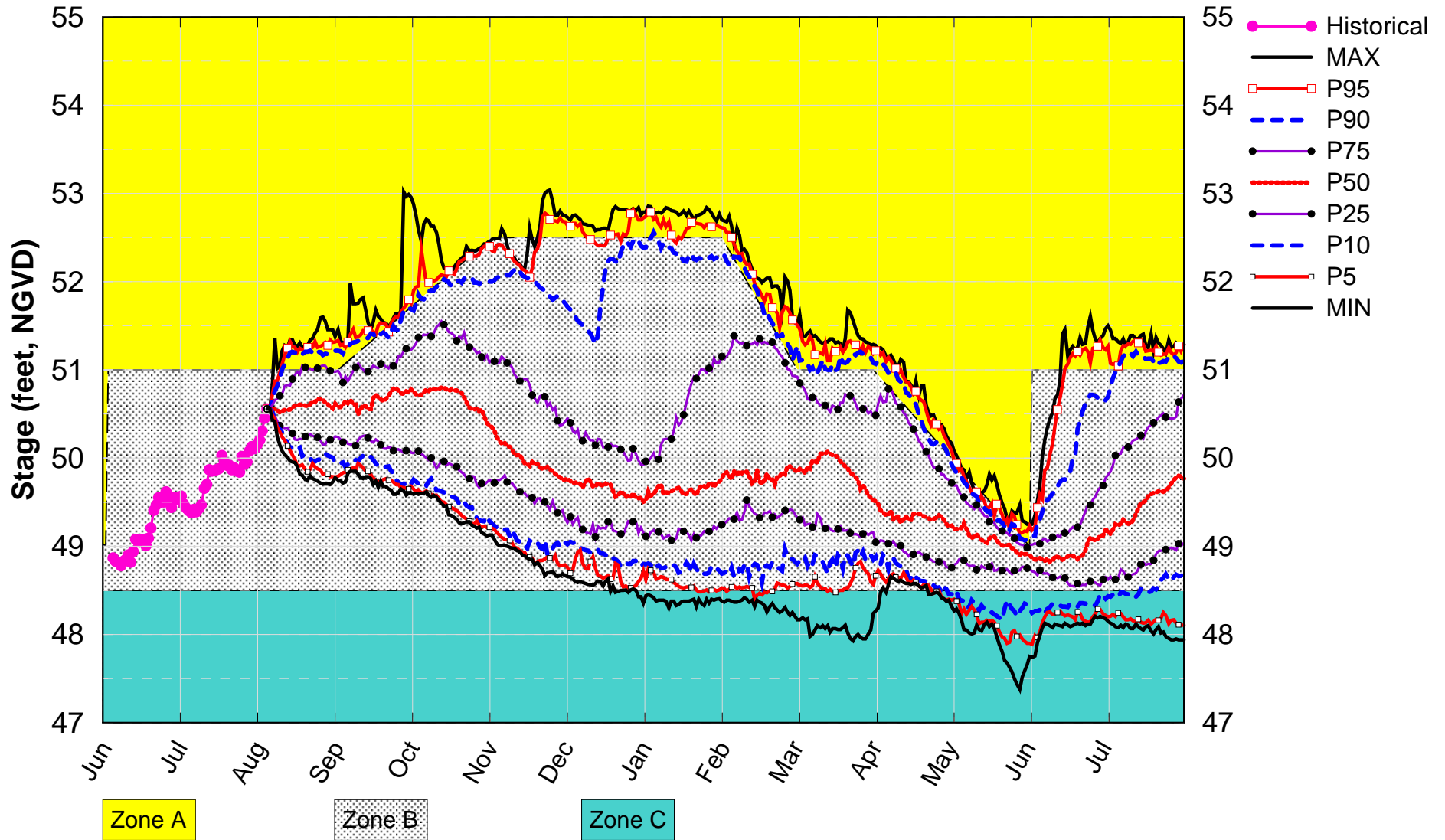
All El Nino Years Plot PA\_SLP1



(See assumptions on the Position Analysis Results website)

# S65 UK-OPS Aug 4 2019 Position Analysis

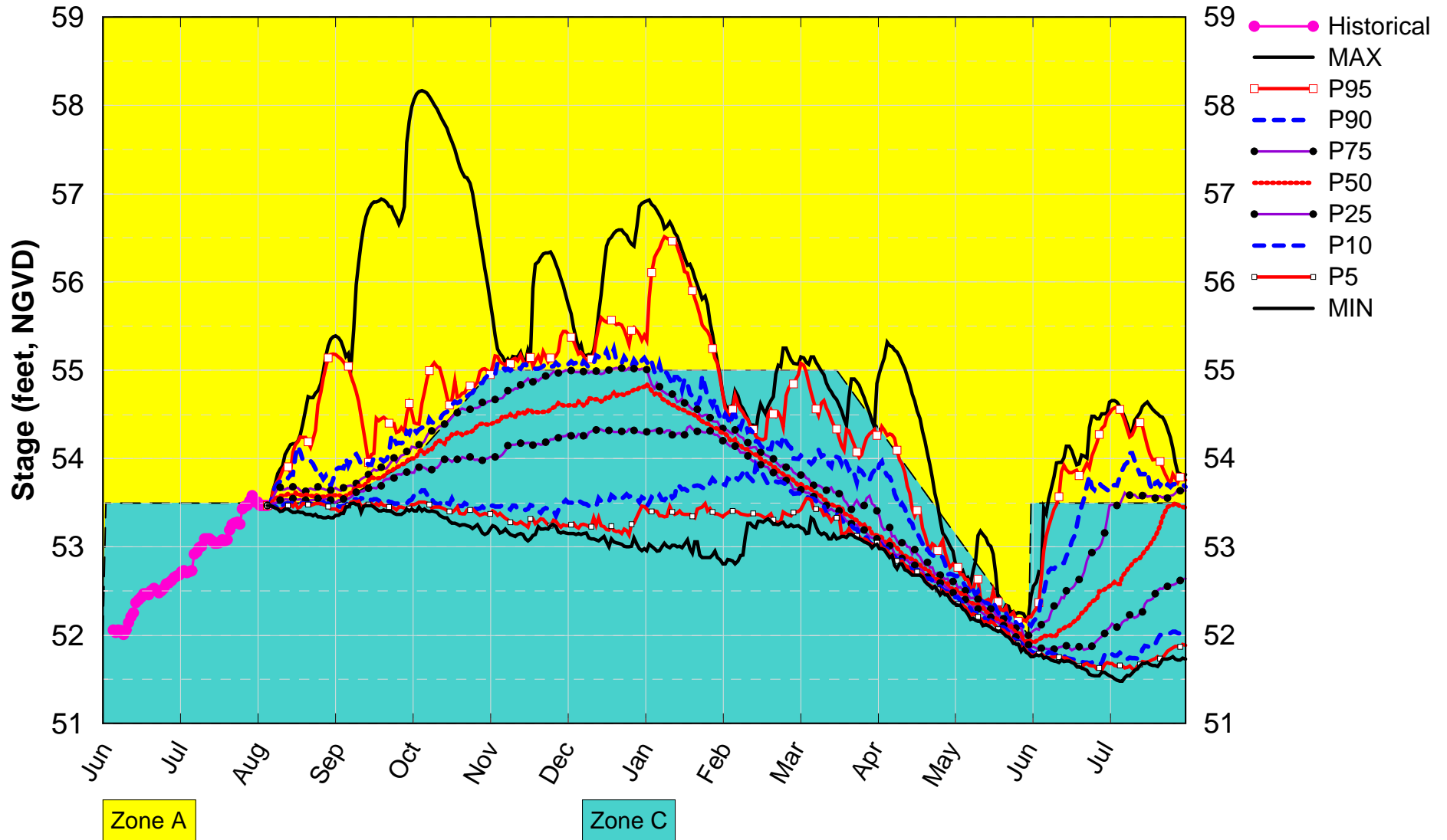
UK-OPS\_SLP1 Unconditional PA



(See assumptions on the Position Analysis Results website)

# S61 UK-OPS Aug 4 2019 Position Analysis

UK-OPS\_SLP1 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	: 13.06
WPB	:C-17	:C17	:S44-H	: 6.88
WPB	:C-51W	:C51W	:S5AE-T	: 10.94
WPB	:C-51	:C51	:S155-H	: 8.17
WCA	:WCA-1 L-40	:CA1	:1-8C	: 16.76
FTLD	:Hillsboro Canal	:HLSB	:G56-H	: 7.47
WCA	:WCA-2A L-38	:L38	:S11B-H	: 11.88
WCA	:WCA-2A L-39	:CA2A	:S10A-T	: 12.45
FTLD	:C-14	:C14	:S37B-H	: 6.82
FTLD	:C-14E	:C14E	:S37A-H	: 4.13
FTLD	:Pompano	:POMP	:G57-H	: 4.78
FTLD	:C-12	:C12	:S33-H	: 3.32
FTLD	:C-13	:C13	:S36-H	: 4.65
FTLD	:North New River Canal	:NNRC	:G54-H	: 4.35
MIAMI	:L-33	:L33	:S30-H	: 5.76
MIAMI	:C-304	:C304	:S31-H	: 7.59
MIAMI	:C-9	:C9	:S29-H	: 2.33
MIAMI	:C-9 DEN	:C9DEN	:S29-H	: 2.33
MIAMI	:C-8	:C8	:S28-H	: 2.05
MIAMI	:C-7	:C7	:S27-H	: 2.08
MIAMI	:C-6	:C6	:S26-H	: 2.24
MIAMI	:C-2/C-4	:C4	:S25B-H	: 2.35
MIAMI	:L-30	:L30	:S335-H	: 6.82
WCA	:WCA-3A L-29	:CA3	:S333-H	: 8.98
WCA	:S-12A	:S12AD	:S12A-T	: 8.74
WCA	:S-12B	:S12BD	:S12B-T	: 8.70
WCA	:S-12C	:S12CD	:S12C-T	: 8.72
WCA	:S-12D	:S12DD	:S12D-T	: 8.71
MIAMI	:L-29	:L29	:S334-H	: 8.11
MIAMI	:C-100C	:C100C	:S119-H	: 3.43
MIAMI	:C-100	:C100	:S118-H	: 3.58
MIAMI	:C-100A	:C100A	:S123-H	: 2.63
HMST	:C-1/S-148	:S148U	:S148-H	: 3.75
HMST	:L-31N	:L31N	:S331-H	: 4.59
HMST	:C-1N	:C1N	:S149-H	: 2.67
MIAMI	:S-21	:S21	:S21-H	: 2.35
HMST	:L-31S	:L31S	:S176-H	: 4.09
MIAMI	:C-102N	:C102N	:S21A-H	: 2.46
HMST	:C-102	:C102	:S165-H	: 3.29
MIAMI	:C-103S	:C103S	:S167-H	: 3.31
HMST	:C-103N	:C103N	:S166-H	: 3.02
HMST	:C-103	:S179	:S179-H	: 2.90
HMST	:L-31W	:L31W	:S332-H	: 3.60
HMST	:C-111	:C111	:S177-H	: 3.01
HMST	:CNO	:CNO	:S179-H	: 2.90
HMST	:C-111E	:C111E	:S18C-H	: 2.44
HMST	:S-197	:S197	:S197-H	: 2.44
EAA	:L-23E	:L23E	:S8-T	: 13.69
EAA	:C-60	:C60	:S140-T	: 11.39

SFWMM Name	col	row	STAGE	Source	Data	match	domain	match	areas
1-7	31	48	16.21	USACE		PA	CA1		
1-8T	34	47	16.47	USACE		PA	CA1		
1-9	33	46	16.17	USACE		PA	CA1		
2-17	29	40	12.06	USACE		PA	CA2		
2-159	28	43	13.30	SFWMD-ARDAMS		PA	CA2		
3-99	30	35	9.56	USACE			CA2		
3A-2	18	36	11.54	USACE		PA	CA3		
3A-3	25	37	9.89	USACE		PA	CA3		
3A-28	19	24	9.07	USACE		PA	CA3		
3A-4	21	29	9.76	USACE		PA	CA3		
3A-NW	18	40	12.16	SFWMD-ARDAMS			CA3		
3A-NE	23	40	10.37	SFWMD-ARDAMS			CA3		
3A-SW	16	30	10.39	SFWMD-ARDAMS			CA3		
3A-S	20	33	10.34	SFWMD-ARDAMS			CA3		
3-76	27	30	7.67	USACE					
3-71	24	26	7.84	USACE					
SHARK	24	23	7.71	USACE			CA3		
3BS1W	26	23	7.35	SFWMD-ARDAMS					
HOLY1	19	45	11.70	SFWMD-ARDAMS			WMA		
HOLY2	21	42	11.70	SFWMD-ARDAMS			WMA		
ROTTN	15	46	13.01	SFWMD-OPERATIONS			WMA		
ROTTT	16	43	12.97	SFWMD-OPERATIONS			WMA		
NP205	15	20	6.34	USACE			ENP		
NP201	19	21	7.43	USACE			ENP		
NP36	17	14	4.51	USACE			ENP		
NP38	16	9	2.12	USACE			ENP		
NP46	17	7	2.01	USACE			ENP		
NP67	22	7	2.68	USACE					
NP33	20	17	6.56	USACE			ENP		
NP34	13	17	2.83	USACE			ENP		
NP44	19	11	4.21	USACE			ENP		
NP206	21	15	6.30	USACE			ENP		
NESR2	25	21	7.82	USACE			ENP		
THSO	23	9	4.35	USACE					
RG2	23	15	6.14	USACE			ENP		
G3273	24	17	7.34	USACE		PA	ENP		
ANGEL	25	17	6.95	USACE		PA			
ANGEL	26	17	6.95	USACE		PA			
EVER4	25	8	2.52	USACE		PA	SA3		
E112	23	10	5.04	USACE			ENP		
G620	18	19	6.46	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 11.28 ft. for 07/01/2019

Date	HLM	High	Inter	Low	Base	Bene	WSM
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	0.0	0.0	0.0	97.6
2019 09 01	2.4	0.0	0.0	0.0	45.6	11.7	40.3
2019 10 01	2.6	0.7	0.9	7.5	47.6	0.2	40.5
2019 11 01	2.4	-0.0	5.5	15.7	54.5	0.5	21.4
2019 12 01	2.4	-0.0	1.2	21.5	49.7	6.7	18.4
2020 01 01	2.4	-0.0	3.0	26.0	42.3	6.3	19.9
2020 02 01	2.4	-0.0	4.0	36.2	22.1	14.6	20.6
2020 03 01	2.4	1.6	5.5	35.8	16.9	15.7	22.1
2020 04 01	2.8	3.7	3.2	26.7	21.6	14.1	27.8
2020 05 01	2.4	-0.0	3.9	25.1	17.0	27.1	24.5
2020 06 01	2.4	-0.0	0.0	30.0	9.3	34.7	23.6

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

Run:

SFWMM v6.7.4 - August 1, 2019 DPA Final LOK Stage 11.86 (11.86 lok stg on aug 4t

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	7	0	0.92	0.00	0.00	0.00	0.00	0.00	0.00
1965	11	0	0	46.51	0.00	0.00	0.00	0.00	0.00	0.00
1965	12	0	0	40.55	0.00	0.00	0.00	0.00	0.00	0.00
1966	1	0	0	0.70	0.00	0.00	0.00	0.00	0.00	0.00
1966	2	0	0	15.58	0.00	0.00	0.00	0.00	0.00	0.00
1966	3	0	0	62.72	0.00	0.00	0.00	0.00	0.00	0.00
1966	4	0	0	58.11	0.00	0.00	0.00	0.00	0.00	0.00
1966	5	0	0	49.52	0.00	0.00	0.01	0.01	0.01	0.01
1966	6	0	0	5.81	0.00	0.00	0.03	0.45	0.03	0.45
1966	7	27	1	13.97	0.05	0.33	0.00	0.00	0.05	0.33
1966	8	2	0	1.86	0.00	0.00	0.04	2.10	0.04	2.10
1966	9	0	0	1.81	0.00	0.00	0.20	11.25	0.20	11.25

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	82.98	0.00	0.00	0.00	0.00	0.00	0.00
1966	12	0	0	54.03	0.00	0.00	0.00	0.00	0.00	0.00
1967	1	0	0	44.84	0.00	0.00	0.00	0.00	0.00	0.00
1967	2	0	0	26.79	0.00	0.00	0.00	0.00	0.00	0.00
1967	3	0	0	79.68	0.00	0.00	0.00	0.00	0.00	0.00
1967	4	0	0	166.83	0.00	0.00	0.02	0.01	0.02	0.01
1967	5	18	8	206.67	18.86	9.13	0.78	0.38	19.64	9.50
1967	6	30	3	29.11	2.50	8.59	2.15	7.38	4.65	15.97
1967	7	27	1	14.52	0.04	0.30	0.00	0.00	0.04	0.30
1967	8	2	0	6.04	0.00	0.00	0.02	0.26	0.02	0.26
1967	9	21	3	12.31	1.46	11.83	0.00	0.00	1.46	11.83

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	1	0	1.12	0.00	0.00	0.00	0.00	0.00	0.00
1967	11	0	0	85.45	0.00	0.00	0.00	0.00	0.00	0.00
1967	12	0	0	29.84	0.00	0.00	0.00	0.00	0.00	0.00
1968	1	0	0	58.59	0.00	0.00	0.00	0.00	0.00	0.00
1968	2	5	0	35.76	0.00	0.00	0.00	0.01	0.00	0.01
1968	3	14	8	75.98	12.59	16.57	0.03	0.04	12.62	16.61
1968	4	30	15	139.33	8.41	6.04	0.00	0.00	8.41	6.04
1968	5	30	2	30.10	1.01	3.34	0.00	0.00	1.01	3.34
1968	6	0	0	0.83	0.00	0.00	0.00	0.00	0.00	0.00
1968	7	27	1	14.65	0.11	0.74	0.00	0.00	0.11	0.75
1968	8	22	3	10.74	0.73	6.81	0.00	0.00	0.73	6.81
1968	9	30	8	8.39	3.82	45.49	0.00	0.00	3.82	45.49



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	19	0	0.54	0.00	0.00	0.00	0.00	0.00	0.00
1968	11	0	0	35.43	0.00	0.00	0.00	0.00	0.00	0.00
1968	12	0	0	84.82	0.00	0.00	0.00	0.00	0.00	0.00
1969	1	0	0	25.79	0.00	0.00	0.00	0.00	0.00	0.00
1969	2	0	0	46.12	0.00	0.00	0.00	0.00	0.00	0.00
1969	3	0	0	12.26	0.00	0.00	0.01	0.05	0.01	0.05
1969	4	0	0	64.60	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	22.71	0.00	0.00	0.00	0.00	0.00	0.00
1969	7	27	1	14.52	0.04	0.31	0.00	0.00	0.04	0.31
1969	8	2	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	7.54	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	16.77	0.00	0.00	0.00	0.00	0.00	0.00
1970	1	0	0	3.52	0.00	0.00	0.00	0.00	0.00	0.00
1970	2	0	0	11.50	0.00	0.00	0.00	0.00	0.00	0.00
1970	3	0	0	13.91	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	161.18	0.00	0.00	0.02	0.02	0.02	0.02
1970	6	0	0	9.40	0.00	0.00	0.00	0.00	0.00	0.00
1970	7	27	1	14.52	0.04	0.31	0.00	0.00	0.04	0.31
1970	8	18	0	4.03	0.00	0.00	0.00	0.00	0.00	0.00
1970	9	30	5	9.43	3.49	37.00	0.00	0.00	3.49	37.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1970	10	31	0	10.09	0.00	0.00	0.00	0.00	0.00	0.00
1970	11	30	19	92.57	17.59	19.00	1.44	1.55	19.03	20.55
1970	12	31	26	90.55	15.99	17.66	0.00	0.00	15.99	17.66
1971	1	31	15	72.26	4.98	6.89	0.00	0.00	4.98	6.89
1971	2	28	10	50.37	10.40	20.65	0.01	0.02	10.41	20.67
1971	3	31	26	121.97	47.84	39.22	0.00	0.00	47.84	39.22
1971	4	30	28	179.47	79.99	44.57	0.05	0.03	80.04	44.60
1971	5	31	15	144.74	42.01	29.03	12.59	8.70	54.61	37.73
1971	6	30	6	42.45	9.62	22.66	1.39	3.27	11.01	25.93
1971	7	27	1	14.52	0.05	0.31	0.00	0.00	0.05	0.31
1971	8	5	0	0.91	0.00	0.00	0.00	0.00	0.00	0.00
1971	9	0	0	12.21	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	14.53	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	48.79	0.00	0.00	0.00	0.00	0.00	0.00
1972	1	0	0	33.18	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	87.88	0.00	0.00	0.11	0.13	0.11	0.13
1972	4	0	0	42.78	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	31.26	0.00	0.00	0.63	2.01	0.63	2.01
1972	7	27	1	14.66	0.11	0.75	0.00	0.00	0.11	0.75
1972	8	23	1	14.69	0.70	4.73	0.00	0.00	0.70	4.73
1972	9	30	11	32.41	11.78	36.36	0.00	0.00	11.78	36.36

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	18	80.39	19.24	23.93	0.00	0.00	19.24	23.93
1972	11	30	5	27.96	4.42	15.82	0.54	1.93	4.96	17.75
1972	12	31	4	26.46	0.84	3.18	0.02	0.07	0.86	3.25
1973	1	31	4	13.52	1.07	7.95	0.05	0.39	1.13	8.34
1973	2	28	0	9.95	0.00	0.00	0.39	3.95	0.39	3.95
1973	3	31	4	57.64	2.64	4.59	0.57	0.99	3.21	5.58
1973	4	16	1	93.16	0.14	0.15	0.09	0.10	0.23	0.25
1973	5	5	2	118.88	2.63	2.21	0.95	0.80	3.58	3.01
1973	6	30	3	27.89	1.86	6.67	0.00	0.00	1.86	6.67
1973	7	27	1	14.52	0.04	0.31	0.00	0.00	0.04	0.31
1973	8	2	0	0.32	0.00	0.00	0.00	0.00	0.00	0.00
1973	9	0	0	0.73	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
1973	10	0	0	18.40	0.00	0.00	0.00	0.00	0.00	0.00
1973	11	0	0	92.06	0.00	0.00	0.00	0.00	0.00	0.00
1973	12	0	0	26.57	0.00	0.00	0.00	0.00	0.00	0.00
1974	1	0	0	46.04	0.00	0.00	0.05	0.12	0.05	0.12
1974	2	0	0	75.93	0.00	0.00	0.00	0.00	0.00	0.00
1974	3	25	17	128.78	15.26	11.85	0.01	0.01	15.27	11.86
1974	4	30	7	113.83	12.96	11.38	0.01	0.01	12.97	11.39
1974	5	31	12	129.79	35.80	27.58	5.38	4.15	41.18	31.73
1974	6	30	0	10.40	0.00	0.00	0.90	8.68	0.90	8.68
1974	7	27	1	14.51	0.04	0.30	0.00	0.00	0.04	0.30
1974	8	2	0	1.42	0.00	0.00	0.20	14.05	0.20	14.05
1974	9	0	0	1.50	0.00	0.00	0.10	6.97	0.10	6.97

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	25.72	0.00	0.00	0.00	0.00	0.00	0.00
1974	11	0	0	64.41	0.00	0.00	0.00	0.00	0.00	0.00
1974	12	0	0	18.55	0.00	0.00	0.30	1.64	0.30	1.64
1975	1	0	0	76.41	0.00	0.00	0.00	0.00	0.00	0.00
1975	2	0	0	67.04	0.00	0.00	0.00	0.00	0.00	0.00
1975	3	10	10	98.52	9.28	9.42	0.00	0.00	9.28	9.42
1975	4	30	12	120.94	10.51	8.69	0.00	0.00	10.51	8.69
1975	5	31	3	45.95	3.56	7.75	0.00	0.00	3.56	7.75
1975	6	30	0	4.85	0.00	0.00	0.00	0.00	0.00	0.00
1975	7	27	1	14.52	0.04	0.31	0.00	0.00	0.04	0.31
1975	8	27	4	8.90	2.57	28.89	0.18	2.06	2.76	30.95
1975	9	30	0	0.58	0.00	0.00	0.12	19.92	0.12	19.92

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	2	0	3.43	0.00	0.00	0.00	0.00	0.00	0.00
1975	11	0	0	53.51	0.00	0.00	0.00	0.00	0.00	0.00
1975	12	0	0	77.16	0.00	0.00	0.00	0.00	0.00	0.00
1976	1	0	0	59.92	0.00	0.00	0.00	0.00	0.00	0.00
1976	2	14	4	63.55	2.06	3.24	0.26	0.40	2.32	3.65
1976	3	16	6	72.21	5.19	7.18	0.00	0.00	5.19	7.18
1976	4	30	9	113.52	4.17	3.67	0.00	0.00	4.17	3.67
1976	5	23	0	10.26	0.00	0.00	0.00	0.00	0.00	0.00
1976	6	0	0	16.81	0.00	0.00	0.00	0.00	0.00	0.00
1976	7	27	1	14.66	0.11	0.75	0.00	0.00	0.11	0.75
1976	8	12	0	1.72	0.00	0.00	0.00	0.00	0.00	0.00
1976	9	0	0	2.28	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1976	10	0	0	66.18	0.00	0.00	0.00	0.00	0.00	0.00
1976	11	0	0	47.24	0.00	0.00	0.00	0.00	0.00	0.00
1976	12	0	0	22.65	0.00	0.00	0.07	0.30	0.07	0.30
1977	1	0	0	1.71	0.00	0.00	0.00	0.00	0.00	0.00
1977	2	0	0	52.91	0.00	0.00	0.00	0.00	0.00	0.00
1977	3	0	0	105.71	0.00	0.00	0.00	0.00	0.00	0.00
1977	4	0	0	134.16	0.00	0.00	0.00	0.00	0.00	0.00
1977	5	10	1	42.58	0.36	0.85	0.09	0.20	0.45	1.05
1977	6	14	6	62.39	20.53	32.91	0.05	0.08	20.58	32.99
1977	7	27	1	14.52	0.05	0.32	0.00	0.00	0.05	0.32
1977	8	24	0	2.35	0.00	0.00	0.00	0.00	0.00	0.00
1977	9	3	0	0.12	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1977	10	0	0	65.21	0.00	0.00	0.00	0.00	0.00	0.00
1977	11	0	0	17.37	0.00	0.00	0.00	0.00	0.00	0.00
1977	12	0	0	1.06	0.00	0.00	0.00	0.00	0.00	0.00
1978	1	0	0	6.77	0.00	0.00	0.00	0.00	0.00	0.00
1978	2	0	0	24.91	0.00	0.00	0.00	0.00	0.00	0.00
1978	3	0	0	48.26	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	18.16	0.00	0.00	0.00	0.00	0.00	0.00
1978	6	0	0	20.63	0.00	0.00	0.00	0.00	0.00	0.00
1978	7	27	1	14.52	0.04	0.31	0.00	0.00	0.04	0.31
1978	8	2	0	0.09	0.00	0.00	0.00	0.00	0.00	0.00
1978	9	0	0	1.89	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	8.78	0.00	0.00	0.00	0.00	0.00	0.00
1978	11	0	0	24.60	0.00	0.00	0.00	0.00	0.00	0.00
1978	12	0	0	17.83	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	39.82	0.00	0.00	0.00	0.00	0.00	0.00
1979	3	0	0	73.35	0.00	0.00	0.00	0.00	0.00	0.00
1979	4	0	0	115.16	0.00	0.00	0.05	0.05	0.05	0.05
1979	5	0	0	0.29	0.00	0.00	0.00	0.00	0.00	0.00
1979	6	0	0	152.40	0.00	0.00	2.08	1.37	2.08	1.37
1979	7	27	1	14.52	0.04	0.30	0.00	0.00	0.04	0.30
1979	8	26	0	3.61	0.00	0.00	0.00	0.00	0.00	0.00
1979	9	3	0	0.23	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	12.79	0.00	0.00	0.00	0.00	0.00	0.00
1979	11	0	0	4.33	0.00	0.00	0.00	0.00	0.00	0.00
1979	12	0	0	19.46	0.00	0.00	0.00	0.00	0.00	0.00
1980	1	0	0	36.32	0.00	0.00	0.00	0.00	0.00	0.00
1980	2	0	0	11.26	0.00	0.00	0.00	0.00	0.00	0.00
1980	3	0	0	64.52	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	98.01	0.00	0.00	0.00	0.00	0.00	0.00
1980	6	0	0	130.51	0.00	0.00	0.77	0.59	0.77	0.59
1980	7	27	1	14.65	0.11	0.75	0.00	0.00	0.11	0.75
1980	8	29	0	2.97	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	14	75.94	10.91	14.37	0.00	0.00	10.91	14.37
1980	11	30	4	28.20	0.40	1.41	0.97	3.43	1.36	4.84
1980	12	31	7	37.43	3.39	9.06	0.01	0.03	3.40	9.09
1981	1	31	21	68.89	11.49	16.68	0.00	0.00	11.49	16.68
1981	2	28	5	28.70	3.73	12.98	0.07	0.26	3.80	13.24
1981	3	31	19	87.43	26.41	30.21	0.00	0.00	26.42	30.21
1981	4	30	28	159.94	61.60	38.52	0.00	0.00	61.60	38.52
1981	5	31	24	199.66	93.61	46.89	2.62	1.31	96.23	48.20
1981	6	30	19	110.08	50.46	45.84	3.51	3.19	53.98	49.03
1981	7	27	1	14.52	0.05	0.32	0.00	0.00	0.05	0.32
1981	8	8	0	1.72	0.00	0.00	0.00	0.00	0.00	0.00
1981	9	0	0	1.76	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1981	10	0	0	98.14	0.00	0.00	0.00	0.00	0.00	0.00
1981	11	0	0	49.46	0.00	0.00	0.00	0.00	0.00	0.00
1981	12	23	19	88.61	11.40	12.86	0.09	0.10	11.49	12.96
1982	1	31	12	62.57	3.75	5.99	0.08	0.13	3.83	6.12
1982	2	26	1	20.62	0.11	0.56	0.01	0.06	0.13	0.62
1982	3	6	3	29.95	2.66	8.89	0.00	0.00	2.66	8.89
1982	4	0	0	11.39	0.00	0.00	0.00	0.00	0.00	0.00
1982	5	0	0	107.79	0.00	0.00	0.04	0.04	0.04	0.04
1982	6	0	0	19.64	0.00	0.00	0.12	0.60	0.12	0.60
1982	7	27	1	14.51	0.04	0.30	0.00	0.00	0.04	0.30
1982	8	2	0	2.52	0.00	0.00	0.00	0.00	0.00	0.00
1982	9	0	0	5.38	0.00	0.00	0.02	0.43	0.02	0.43

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	13.33	0.00	0.00	0.00	0.00	0.00	0.00
1982	11	0	0	44.82	0.00	0.00	0.00	0.00	0.00	0.00
1982	12	0	0	46.97	0.00	0.00	0.00	0.00	0.00	0.00
1983	1	0	0	21.88	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	207.06	0.00	0.00	0.02	0.01	0.02	0.01
1983	6	0	0	28.56	0.00	0.00	0.00	0.00	0.00	0.00
1983	7	27	1	14.51	0.04	0.30	0.00	0.00	0.04	0.30
1983	8	20	2	6.10	0.21	3.49	0.00	0.00	0.21	3.49
1983	9	30	3	6.72	3.15	46.79	0.00	0.00	3.15	46.79

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	16	0	3.27	0.00	0.00	0.00	0.00	0.00	0.00
1983	11	0	0	19.85	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	29.34	0.00	0.00	0.00	0.00	0.00	0.00
1984	2	0	0	32.07	0.00	0.00	0.00	0.00	0.00	0.00
1984	3	0	0	15.26	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	51.34	0.00	0.00	0.13	0.26	0.13	0.26
1984	7	27	1	14.65	0.11	0.75	0.00	0.00	0.11	0.75
1984	8	23	3	11.47	0.46	4.03	0.00	0.00	0.46	4.03
1984	9	30	8	16.01	7.44	46.44	0.00	0.00	7.44	46.44

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	31	8	55.40	6.74	12.17	0.00	0.00	6.74	12.17
1984	11	30	9	60.04	9.92	16.53	0.48	0.81	10.41	17.34
1984	12	31	4	47.92	0.96	2.00	0.00	0.00	0.96	2.00
1985	1	31	9	59.06	4.74	8.03	0.15	0.25	4.89	8.28
1985	2	28	22	88.58	13.85	15.63	0.00	0.00	13.85	15.63
1985	3	31	16	88.35	24.90	28.19	0.02	0.02	24.92	28.21
1985	4	30	4	31.85	3.11	9.76	0.00	0.00	3.11	9.76
1985	5	31	15	131.78	28.83	21.88	14.98	11.37	43.81	33.24
1985	6	30	11	119.18	54.47	45.70	8.43	7.07	62.90	52.78
1985	7	27	1	14.52	0.04	0.31	0.00	0.00	0.04	0.31
1985	8	6	0	0.58	0.00	0.00	0.00	0.00	0.00	0.00
1985	9	3	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	7.94	0.00	0.00	0.00	0.00	0.00	0.00
1985	11	0	0	33.92	0.00	0.00	0.00	0.00	0.00	0.00
1985	12	0	0	18.25	0.00	0.00	0.00	0.00	0.00	0.00
1986	1	0	0	11.93	0.00	0.00	0.00	0.00	0.00	0.00
1986	2	0	0	46.74	0.00	0.00	0.00	0.00	0.00	0.00
1986	3	0	0	18.27	0.00	0.00	0.00	0.00	0.00	0.00
1986	4	0	0	138.16	0.00	0.00	0.00	0.00	0.00	0.00
1986	5	0	0	130.94	0.00	0.00	0.16	0.12	0.16	0.12
1986	6	0	0	18.70	0.00	0.00	0.00	0.00	0.00	0.00
1986	7	27	1	14.51	0.04	0.31	0.00	0.00	0.04	0.31
1986	8	7	0	0.06	0.00	0.00	0.01	12.51	0.01	12.51
1986	9	1	0	5.79	0.00	0.00	0.02	0.36	0.02	0.36

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	18	4	30.87	2.25	7.30	0.28	0.90	2.53	8.19
1986	11	0	0	22.86	0.00	0.00	0.09	0.41	0.09	0.41
1986	12	0	0	40.53	0.00	0.00	0.59	1.45	0.59	1.45
1987	1	0	0	11.99	0.00	0.00	0.00	0.00	0.00	0.00
1987	2	0	0	20.89	0.00	0.00	0.04	0.18	0.04	0.18
1987	3	0	0	19.38	0.00	0.00	0.04	0.19	0.04	0.19
1987	4	0	0	107.45	0.00	0.00	0.02	0.02	0.02	0.02
1987	5	0	0	111.12	0.00	0.00	0.25	0.23	0.25	0.23
1987	6	0	0	110.18	0.00	0.00	0.18	0.16	0.18	0.16
1987	7	27	1	14.52	0.04	0.31	0.00	0.00	0.04	0.31
1987	8	25	19	58.52	36.59	62.52	0.00	0.00	36.59	62.52
1987	9	30	8	14.38	5.59	38.90	0.00	0.00	5.59	38.90

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	17.45	0.00	0.00	0.00	0.00	0.00	0.00
1987	11	4	0	2.41	0.00	0.00	0.21	8.72	0.21	8.72
1987	12	0	0	34.21	0.00	0.00	0.00	0.00	0.00	0.00
1988	1	0	0	9.08	0.00	0.00	0.00	0.00	0.00	0.00
1988	2	0	0	11.42	0.00	0.00	0.00	0.00	0.00	0.00
1988	3	0	0	24.98	0.00	0.00	0.00	0.00	0.00	0.00
1988	4	0	0	135.85	0.00	0.00	0.00	0.00	0.00	0.00
1988	5	0	0	109.36	0.00	0.00	0.00	0.00	0.00	0.00
1988	6	0	0	55.68	0.00	0.00	0.21	0.38	0.21	0.38
1988	7	27	1	14.66	0.11	0.75	0.00	0.00	0.11	0.75
1988	8	5	0	0.02	0.00	0.00	0.00	0.00	0.00	0.00
1988	9	4	4	45.55	4.01	8.80	0.00	0.00	4.01	8.80

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	120.89	37.80	31.27	0.10	0.08	37.90	31.35
1988	11	30	0	38.86	0.00	0.00	0.97	2.50	0.97	2.50
1988	12	31	4	46.89	1.51	3.22	0.22	0.47	1.73	3.70
1989	1	31	12	54.78	7.71	14.07	0.25	0.46	7.96	14.53
1989	2	28	18	86.95	13.54	15.57	0.07	0.08	13.61	15.66
1989	3	31	5	53.25	0.87	1.63	0.00	0.00	0.87	1.63
1989	4	29	1	44.71	0.09	0.21	0.00	0.01	0.10	0.22
1989	5	17	7	128.84	24.77	19.22	0.23	0.18	25.00	19.40
1989	6	30	21	169.54	82.69	48.77	8.61	5.08	91.30	53.85
1989	7	27	1	14.51	0.04	0.30	0.00	0.00	0.04	0.30
1989	8	27	0	1.51	0.00	0.00	0.00	0.00	0.00	0.00
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	10	0	14.00	0.00	0.00	0.00	0.00	0.00	0.00
1989	11	0	0	86.95	0.00	0.00	0.06	0.07	0.06	0.07
1989	12	0	0	22.59	0.00	0.00	0.00	0.00	0.00	0.00
1990	1	0	0	57.97	0.00	0.00	0.19	0.33	0.19	0.33
1990	2	0	0	12.34	0.00	0.00	0.06	0.50	0.06	0.50
1990	3	0	0	68.71	0.00	0.00	0.00	0.00	0.00	0.00
1990	4	0	0	90.97	0.00	0.00	0.00	0.00	0.00	0.00
1990	5	0	0	46.52	0.00	0.00	0.03	0.05	0.03	0.05
1990	6	12	2	56.39	2.47	4.39	1.00	1.77	3.47	6.15
1990	7	27	1	14.52	0.05	0.31	0.00	0.00	0.05	0.31
1990	8	8	0	0.72	0.00	0.00	0.00	0.00	0.00	0.00
1990	9	5	1	19.31	0.11	0.57	0.00	0.00	0.11	0.57

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	1	0	14.36	0.00	0.00	0.00	0.00	0.00	0.00
1990	11	0	0	76.75	0.00	0.00	0.00	0.00	0.00	0.00
1990	12	0	0	78.52	0.00	0.00	0.00	0.00	0.00	0.00
1991	1	0	0	4.85	0.00	0.00	0.03	0.53	0.03	0.53
1991	2	0	0	26.83	0.00	0.00	0.00	0.00	0.00	0.00
1991	3	0	0	55.21	0.00	0.00	0.00	0.00	0.00	0.00
1991	4	0	0	3.86	0.00	0.00	0.00	0.00	0.00	0.00
1991	5	0	0	50.12	0.00	0.00	0.00	0.00	0.00	0.00
1991	6	0	0	15.61	0.00	0.00	0.00	0.00	0.00	0.00
1991	7	27	1	14.51	0.04	0.30	0.00	0.00	0.04	0.30
1991	8	13	0	6.68	0.00	0.00	0.00	0.00	0.00	0.00
1991	9	0	0	5.51	0.00	0.00	0.09	1.61	0.09	1.61

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	12.08	0.00	0.00	0.00	0.00	0.00	0.00
1991	11	0	0	43.34	0.00	0.00	0.00	0.00	0.00	0.00
1991	12	0	0	34.95	0.00	0.00	0.00	0.00	0.00	0.00
1992	1	0	0	19.86	0.00	0.00	0.02	0.09	0.02	0.09
1992	2	0	0	22.43	0.00	0.00	0.00	0.00	0.00	0.00
1992	3	0	0	31.34	0.00	0.00	0.00	0.00	0.00	0.00
1992	4	0	0	7.04	0.00	0.00	0.00	0.00	0.00	0.00
1992	5	0	0	202.35	0.00	0.00	0.43	0.21	0.43	0.21
1992	6	0	0	20.82	0.00	0.00	0.08	0.38	0.08	0.38
1992	7	26	1	14.01	0.11	0.79	0.00	0.00	0.11	0.79
1992	8	3	0	0.01	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	50.97	0.00	0.00	0.00	0.00	0.00	0.00
1992	11	0	0	19.91	0.00	0.00	0.00	0.00	0.00	0.00
1992	12	0	0	38.99	0.00	0.00	0.00	0.00	0.00	0.00
1993	1	0	0	0.19	0.00	0.00	0.00	0.00	0.00	0.00
1993	2	0	0	7.62	0.00	0.00	0.00	0.00	0.00	0.00
1993	3	0	0	19.71	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	181.48	0.00	0.00	0.01	0.00	0.01	0.00
1993	6	0	0	39.03	0.00	0.00	0.00	0.00	0.00	0.00
1993	7	27	1	14.52	0.04	0.30	0.00	0.00	0.04	0.30
1993	8	28	6	27.19	7.45	27.41	0.00	0.00	7.45	27.41
1993	9	30	0	2.70	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
1993	10	16	0	3.06	0.00	0.00	0.00	0.00	0.00	0.00
1993	11	0	0	35.01	0.00	0.00	0.00	0.00	0.00	0.00
1993	12	0	0	46.54	0.00	0.00	0.00	0.00	0.00	0.00
1994	1	0	0	7.09	0.00	0.00	0.00	0.00	0.00	0.00
1994	2	0	0	8.89	0.00	0.00	0.00	0.00	0.00	0.00
1994	3	0	0	43.80	0.00	0.00	0.00	0.00	0.00	0.00
1994	4	0	0	49.23	0.00	0.00	0.06	0.11	0.06	0.11
1994	5	0	0	97.65	0.00	0.00	0.00	0.00	0.00	0.00
1994	6	0	0	18.45	0.00	0.00	0.00	0.00	0.00	0.00
1994	7	27	1	14.52	0.05	0.31	0.00	0.00	0.05	0.31
1994	8	2	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	7.62	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	73.14	0.00	0.00	0.00	0.00	0.00	0.00
1995	5	0	0	92.12	0.00	0.00	0.00	0.00	0.00	0.00
1995	6	0	0	25.18	0.00	0.00	0.28	1.13	0.28	1.13
1995	7	27	1	14.51	0.04	0.30	0.00	0.00	0.04	0.30
1995	8	2	0	6.42	0.00	0.00	0.00	0.00	0.00	0.00
1995	9	0	0	10.36	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
1995	10	0	0	0.84	0.00	0.00	0.00	0.00	0.00	0.00
1995	11	0	0	45.25	0.00	0.00	0.00	0.00	0.00	0.00
1995	12	0	0	32.34	0.00	0.00	0.00	0.00	0.00	0.00
1996	1	0	0	12.82	0.00	0.00	0.00	0.00	0.00	0.00
1996	2	0	0	73.79	0.00	0.00	0.00	0.00	0.00	0.00
1996	3	0	0	33.83	0.00	0.00	0.00	0.00	0.00	0.00
1996	4	0	0	60.08	0.00	0.00	0.00	0.00	0.00	0.00
1996	5	0	0	34.69	0.00	0.00	0.00	0.00	0.00	0.00
1996	6	0	0	2.98	0.00	0.00	0.00	0.00	0.00	0.00
1996	7	27	1	14.65	0.11	0.75	0.00	0.00	0.11	0.75
1996	8	23	0	5.51	0.00	0.00	0.00	0.00	0.00	0.00
1996	9	30	11	29.26	6.81	23.28	0.00	0.00	6.81	23.28

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	16.59	0.00	0.00	0.00	0.00	0.00	0.00
1996	11	30	12	68.66	4.85	7.06	0.89	1.30	5.74	8.36
1996	12	31	15	73.85	7.41	10.04	0.00	0.00	7.41	10.04
1997	1	31	5	42.36	0.84	1.97	0.04	0.10	0.88	2.07
1997	2	28	5	43.69	2.38	5.45	0.09	0.22	2.47	5.66
1997	3	31	11	56.29	8.35	14.84	0.00	0.00	8.35	14.84
1997	4	30	6	30.52	2.59	8.49	0.00	0.00	2.59	8.50
1997	5	14	0	18.31	0.00	0.00	0.00	0.00	0.00	0.00
1997	6	0	0	32.05	0.00	0.00	0.77	2.41	0.77	2.41
1997	7	27	1	14.52	0.05	0.32	0.00	0.00	0.05	0.32
1997	8	2	0	1.85	0.00	0.00	0.00	0.00	0.00	0.00
1997	9	0	0	6.31	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
1997	10	0	0	49.57	0.00	0.00	0.00	0.00	0.00	0.00
1997	11	0	0	16.36	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	92.47	0.00	0.00	0.00	0.00	0.00	0.00
1998	5	0	0	132.46	0.00	0.00	0.15	0.12	0.15	0.12
1998	6	0	0	153.09	0.00	0.00	1.53	1.00	1.53	1.00
1998	7	27	1	14.52	0.04	0.30	0.00	0.00	0.04	0.30
1998	8	2	0	3.37	0.00	0.00	0.05	1.49	0.05	1.49
1998	9	5	0	1.72	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
1998	10	0	0	23.04	0.00	0.00	0.00	0.00	0.00	0.00
1998	11	0	0	18.30	0.00	0.00	0.00	0.00	0.00	0.00
1998	12	0	0	30.93	0.00	0.00	0.00	0.00	0.00	0.00
1999	1	0	0	10.19	0.00	0.00	0.00	0.00	0.00	0.00
1999	2	0	0	45.04	0.00	0.00	0.00	0.00	0.00	0.00
1999	3	0	0	122.99	0.00	0.00	0.00	0.00	0.00	0.00
1999	4	0	0	128.85	0.00	0.00	0.00	0.00	0.00	0.00
1999	5	0	0	88.29	0.00	0.00	0.67	0.76	0.67	0.76
1999	6	0	0	6.51	0.00	0.00	0.00	0.00	0.00	0.00
1999	7	27	1	14.52	0.04	0.31	0.00	0.00	0.04	0.31
1999	8	19	0	0.54	0.00	0.00	0.00	0.00	0.00	0.00
1999	9	0	0	1.81	0.00	0.00	0.55	30.36	0.55	30.36

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	37.50	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	59.60	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	72.55	0.00	0.00	0.00	0.00	0.00	0.00
2000	4	0	0	72.66	0.00	0.00	0.00	0.00	0.00	0.00
2000	5	0	0	184.36	0.00	0.00	0.15	0.08	0.15	0.08
2000	6	8	1	151.80	2.18	1.44	1.15	0.75	3.33	2.19
2000	7	27	1	14.66	0.11	0.75	0.00	0.00	0.11	0.75
2000	8	27	13	48.21	29.10	60.37	0.00	0.00	29.11	60.38
2000	9	30	2	4.09	0.65	15.94	0.00	0.00	0.65	15.94



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	42.79	3.14	7.35	0.00	0.00	3.14	7.35
2000	11	30	25	105.65	22.14	20.96	0.18	0.17	22.32	21.12
2000	12	31	14	78.42	12.35	15.75	0.04	0.06	12.39	15.80
2001	1	31	15	66.27	6.86	10.35	0.07	0.10	6.92	10.45
2001	2	28	24	96.01	26.37	27.47	0.00	0.00	26.37	27.47
2001	3	31	15	70.41	26.11	37.09	0.03	0.04	26.14	37.13
2001	4	30	21	124.31	45.71	36.77	0.01	0.01	45.72	36.78
2001	5	31	17	166.01	68.11	41.02	7.20	4.34	75.31	45.36
2001	6	30	9	70.05	11.10	15.85	10.57	15.09	21.67	30.94
2001	7	27	1	14.51	0.04	0.30	0.00	0.00	0.04	0.30
2001	8	2	0	34.67	0.00	0.00	0.07	0.19	0.07	0.19
2001	9	0	0	6.11	0.00	0.00	0.09	1.48	0.09	1.48

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	10.07	0.00	0.00	0.00	0.00	0.00	0.00
2001	11	0	0	41.36	0.00	0.00	0.00	0.00	0.00	0.00
2001	12	0	0	41.46	0.00	0.00	0.00	0.00	0.00	0.00
2002	1	0	0	27.50	0.00	0.00	0.00	0.00	0.00	0.00
2002	2	0	0	30.47	0.00	0.00	0.00	0.00	0.00	0.00
2002	3	0	0	78.99	0.00	0.00	0.00	0.00	0.00	0.00
2002	4	0	0	106.94	0.00	0.00	0.05	0.04	0.05	0.04
2002	5	0	0	152.49	0.00	0.00	0.02	0.01	0.02	0.01
2002	6	7	0	64.68	0.00	0.00	0.16	0.25	0.16	0.25
2002	7	27	1	14.51	0.04	0.29	0.00	0.00	0.04	0.29
2002	8	12	0	2.93	0.00	0.00	0.00	0.00	0.00	0.00
2002	9	0	0	11.06	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	11.87	0.00	0.00	0.00	0.00	0.00	0.00
2002	11	0	0	30.88	0.00	0.00	0.00	0.00	0.00	0.00
2002	12	0	0	7.63	0.00	0.00	0.00	0.00	0.00	0.00
2003	1	0	0	45.78	0.00	0.00	0.00	0.00	0.00	0.00
2003	2	0	0	56.65	0.00	0.00	0.00	0.00	0.00	0.00
2003	3	0	0	34.86	0.00	0.00	0.00	0.00	0.00	0.00
2003	4	0	0	68.26	0.00	0.00	0.00	0.00	0.00	0.00
2003	5	0	0	55.33	0.00	0.00	0.00	0.00	0.00	0.00
2003	6	0	0	15.51	0.00	0.00	0.00	0.00	0.00	0.00
2003	7	27	1	14.52	0.05	0.32	0.00	0.00	0.05	0.32
2003	8	2	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	9	0	0	1.33	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	41.32	0.00	0.00	0.00	0.00	0.00	0.00
2003	11	0	0	32.68	0.00	0.00	0.00	0.00	0.00	0.00
2003	12	0	0	28.53	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	17.50	0.00	0.00	0.00	0.00	0.00	0.00
2004	3	0	0	99.97	0.00	0.00	0.00	0.00	0.00	0.00
2004	4	0	0	98.95	0.00	0.00	0.05	0.05	0.05	0.05
2004	5	0	0	195.11	0.00	0.00	0.13	0.06	0.13	0.06
2004	6	3	1	52.58	2.12	4.03	0.04	0.07	2.15	4.10
2004	7	27	1	14.66	0.11	0.75	0.00	0.00	0.11	0.75
2004	8	2	0	0.05	0.00	0.00	0.00	0.00	0.00	0.00
2004	9	0	0	0.25	0.00	0.00	0.10	40.86	0.10	40.86

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	8.34	0.00	0.00	0.00	0.00	0.00	0.00
2004	11	0	0	42.62	0.00	0.00	0.00	0.00	0.00	0.00
2004	12	0	0	58.83	0.00	0.00	0.00	0.00	0.00	0.00
2005	1	0	0	44.63	0.00	0.00	0.00	0.00	0.00	0.00
2005	2	0	0	79.29	0.00	0.00	0.00	0.00	0.00	0.00
2005	3	0	0	0.41	0.00	0.00	0.00	0.00	0.00	0.00
2005	4	0	0	59.77	0.00	0.00	0.00	0.00	0.00	0.00
2005	5	0	0	67.05	0.00	0.00	0.01	0.02	0.01	0.02
2005	6	0	0	4.37	0.00	0.00	0.00	0.00	0.00	0.00
2005	7	27	1	14.51	0.04	0.30	0.00	0.00	0.04	0.30
2005	8	8	0	4.48	0.00	0.00	0.00	0.00	0.00	0.00
2005	9	13	1	13.34	0.98	7.33	0.01	0.05	0.98	7.38

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

Run:

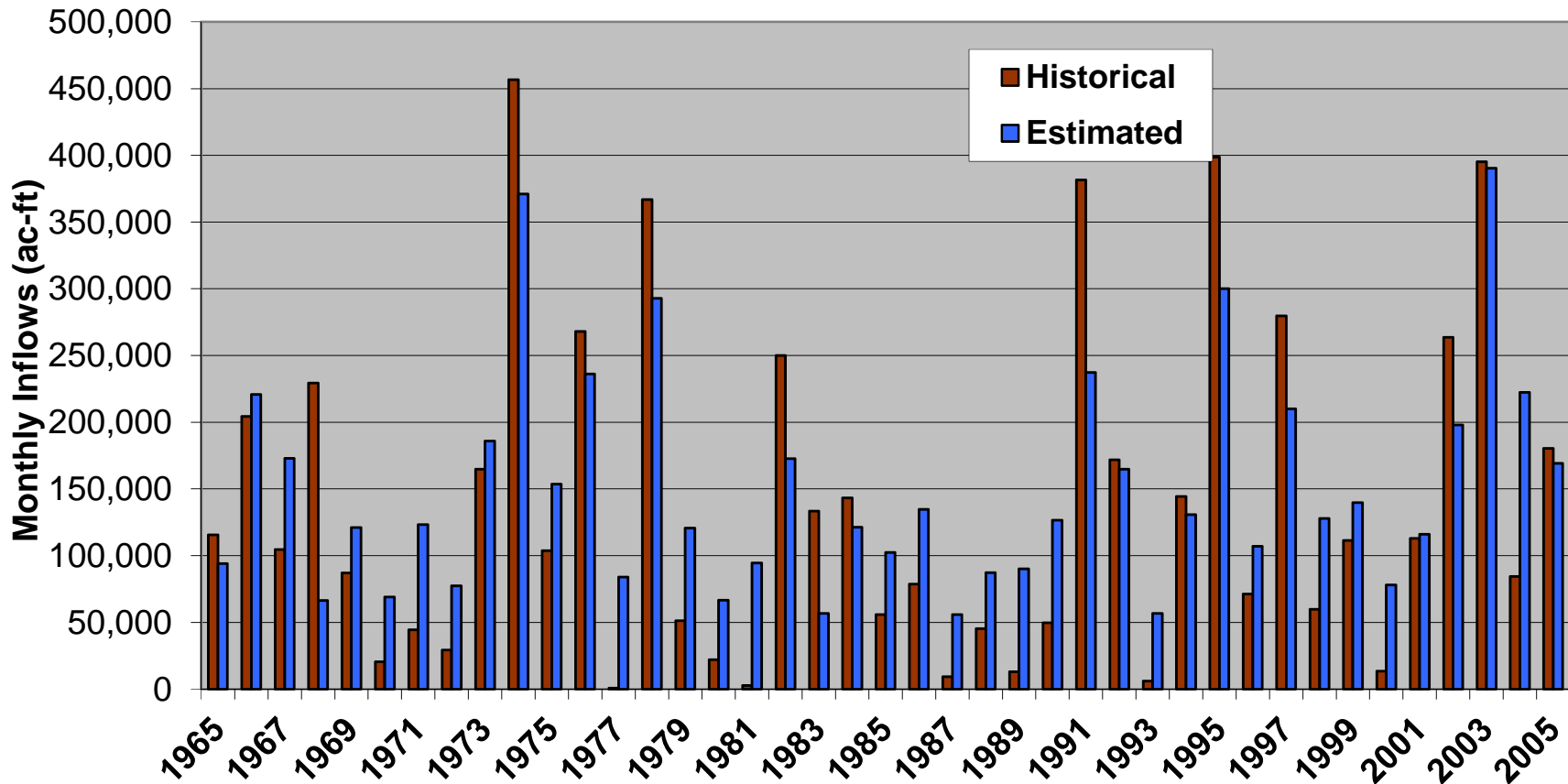
SFWMM v6.7.4 - August 1, 2019 DPA Final LOK Stage 11.86 (11.86 lok stg on aug 4t

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	36	1	298.06	0.05	0.02	0.28	0.09	0.32	0.11
1967	98	15	730.48	22.86	3.13	2.96	0.41	25.83	3.54
1968	159	37	490.77	26.67	5.43	0.03	0.01	26.70	5.44
1969	48	1	334.71	0.04	0.01	0.01	0.00	0.05	0.02
1970	75	6	335.92	3.53	1.05	0.02	0.01	3.56	1.06
1971	305	146	832.12	228.46	27.46	15.48	1.86	243.94	29.32
1972	80	13	417.38	12.59	3.02	0.74	0.18	13.33	3.19
1973	262	42	471.40	32.89	6.98	2.61	0.55	35.51	7.53
1974	145	37	659.23	64.07	9.72	6.66	1.01	70.73	10.73
1975	185	30	546.41	25.97	4.75	0.61	0.11	26.57	4.86
1976	124	20	489.02	11.53	2.36	0.26	0.05	11.78	2.41
1977	78	8	552.51	20.94	3.79	0.21	0.04	21.14	3.83
1978	29	1	327.62	0.04	0.01	0.00	0.00	0.04	0.01
1979	56	1	450.58	0.04	0.01	2.14	0.47	2.18	0.48
1980	86	1	410.57	0.11	0.03	0.77	0.19	0.88	0.21
1981	308	142	814.28	262.05	32.18	7.19	0.88	269.24	33.07
1982	115	36	510.59	17.97	3.52	0.36	0.07	18.33	3.59
1983	77	6	419.08	3.40	0.81	0.02	0.00	3.42	0.82
1984	96	12	377.66	8.01	2.12	0.13	0.03	8.14	2.16
1985	309	99	697.55	147.58	21.16	24.07	3.45	171.64	24.61
1986	35	1	445.22	0.04	0.01	0.19	0.04	0.23	0.05
1987	100	32	562.69	44.48	7.90	1.49	0.26	45.96	8.17
1988	71	5	460.66	4.12	0.89	0.42	0.09	4.54	0.99
1989	342	97	761.54	169.02	22.19	10.46	1.37	179.48	23.57
1990	62	4	491.00	2.63	0.54	1.34	0.27	3.97	0.81
1991	41	1	352.83	0.04	0.01	0.11	0.03	0.16	0.04
1992	29	1	409.13	0.11	0.03	0.53	0.13	0.64	0.16
1993	85	7	458.18	7.50	1.64	0.01	0.00	7.50	1.64
1994	45	1	324.95	0.05	0.01	0.06	0.02	0.10	0.03
1995	29	1	281.78	0.04	0.02	0.28	0.10	0.33	0.12
1996	80	12	346.05	6.92	2.00	0.00	0.00	6.92	2.00
1997	255	55	405.00	26.47	6.54	1.80	0.45	28.27	6.98
1998	34	1	472.34	0.04	0.01	1.74	0.37	1.78	0.38
1999	46	1	491.00	0.04	0.01	1.22	0.25	1.27	0.26
2000	92	17	758.14	32.05	4.23	1.30	0.17	33.34	4.40
2001	302	147	875.22	221.93	25.36	18.26	2.09	240.19	27.44
2002	46	1	582.47	0.04	0.01	0.23	0.04	0.27	0.05
2003	29	1	342.62	0.05	0.01	0.00	0.00	0.05	0.01
2004	32	2	627.05	2.23	0.35	0.32	0.05	2.54	0.41
2005	48	2	397.64	1.02	0.26	0.02	0.01	1.04	0.26

# August 4 2019 Dynamic Position Analysis

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



## August 4 2019 Dynamic Position Analysis Historical and Estimated S-65E Monthly Flow for September from 1965 - 2005

