

Dynamic Position Analysis for December 15, 2019

SFWMM Model Simulation of 41 years (1965-2005)

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December 15, 2019

Dynamic Position Analysis Using Hybrid LOWSM Modeling Assumptions

- December 15, 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 December 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

- ENSO-neutral conditions are present. ENSO-neutral is favored during the winter 2019 (~70% chance), continuing through spring 2020 (60-65% 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:

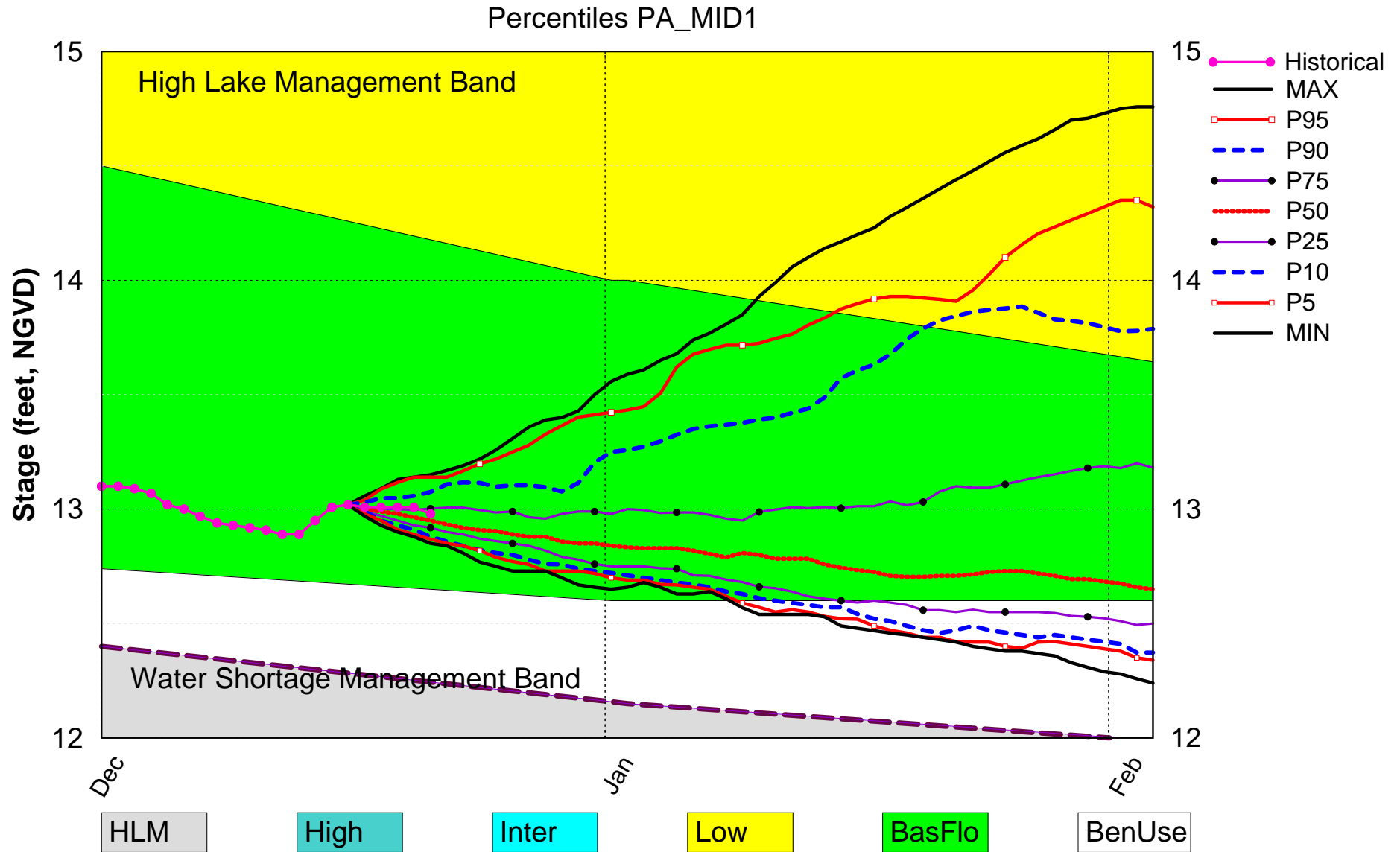
https://origin.cpc.ncep.noaa.gov/products/analysis_monitoring/ensostuff/ONI_v5.php

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](#).

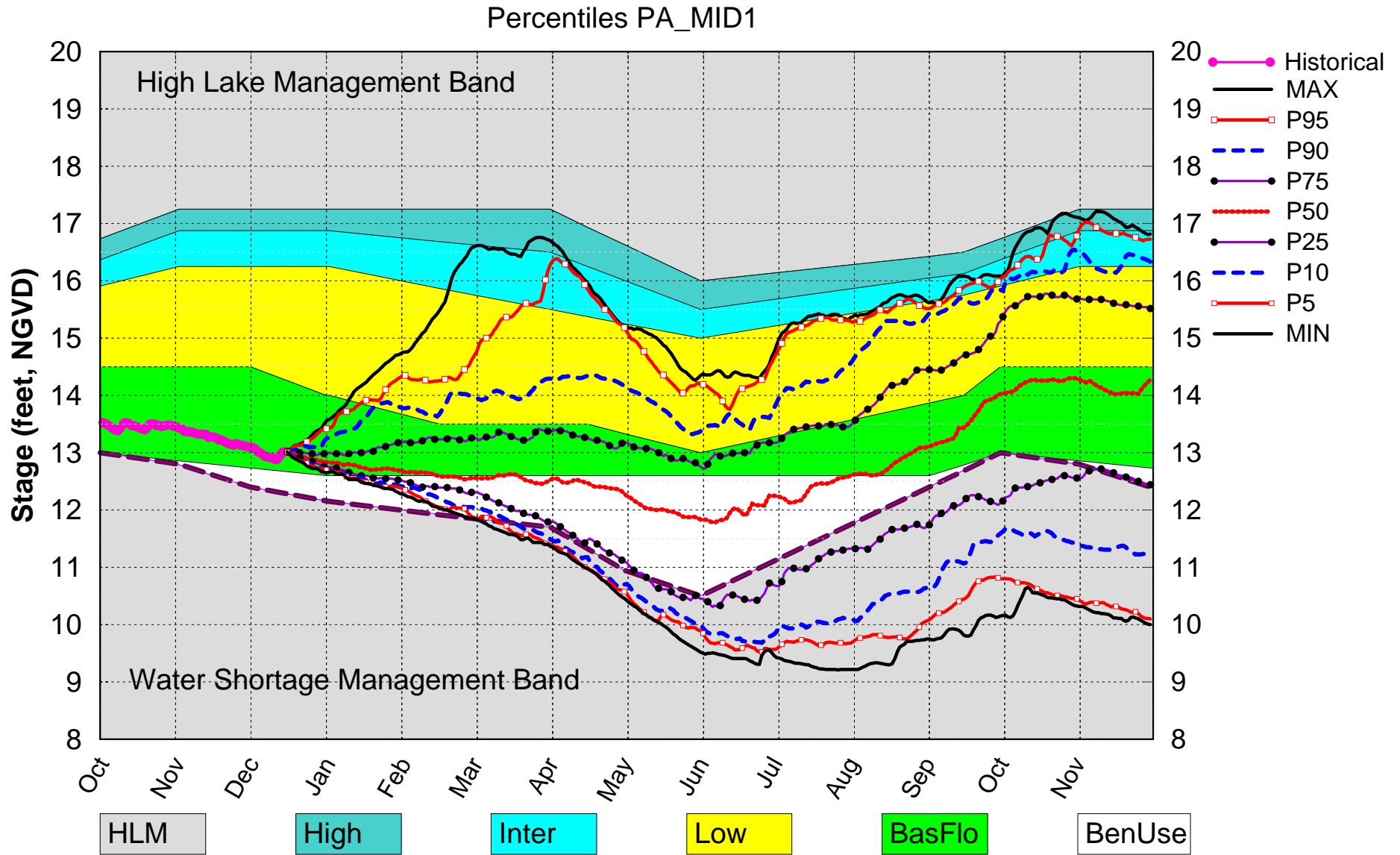
[Back to Operational Planning Main Page](#)

Lake Okeechobee SFWMM Dec Mid–Mon 2019 Position Analysis



(See assumptions on the Position Analysis Results website)

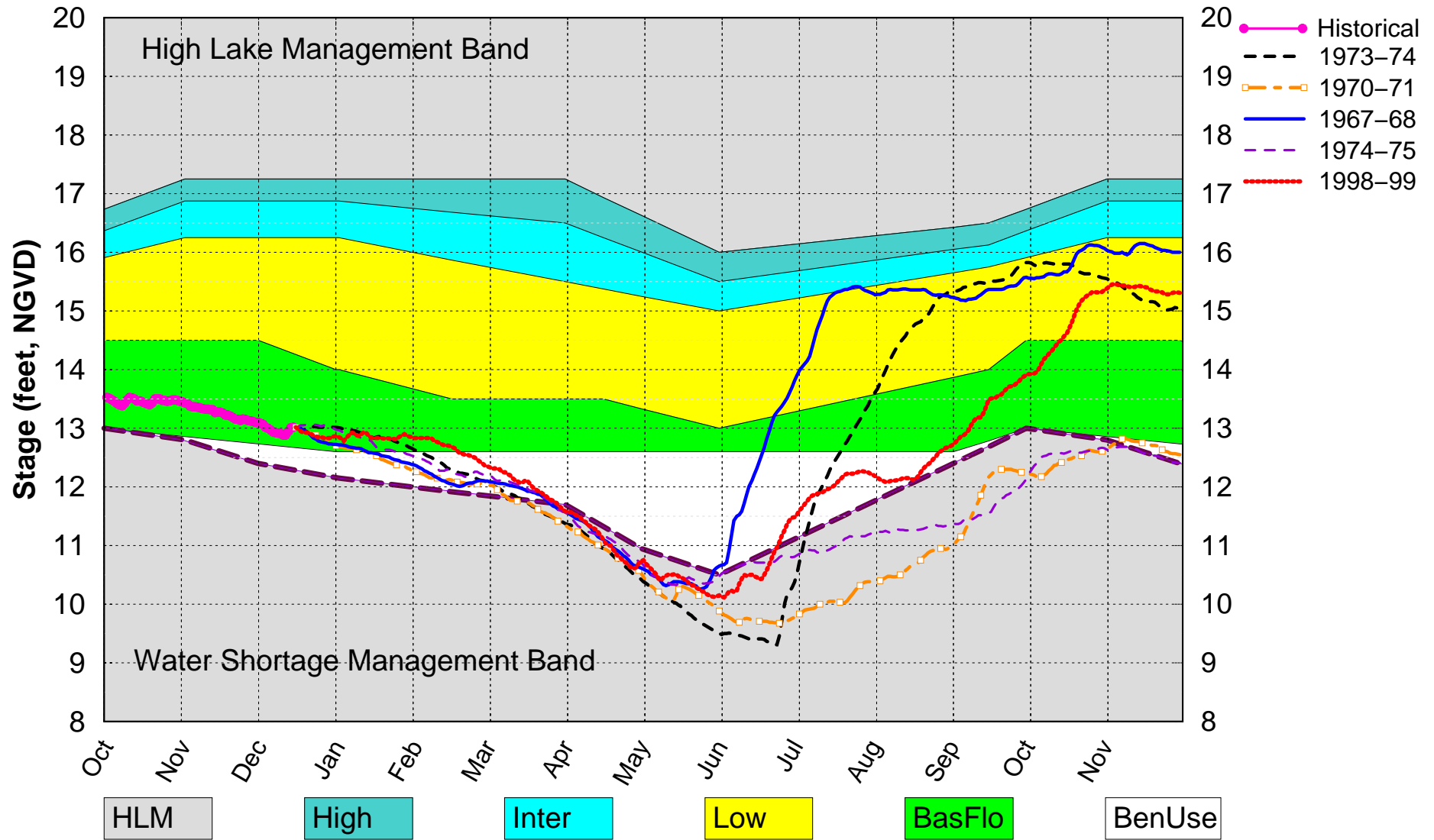
Lake Okeechobee SFWMM Dec Mid–Mon 2019 Position Analysis



(See assumptions on the Position Analysis Results website)

Lake Okeechobee SFWMM Dec Mid–Mon 2019 Position Analysis

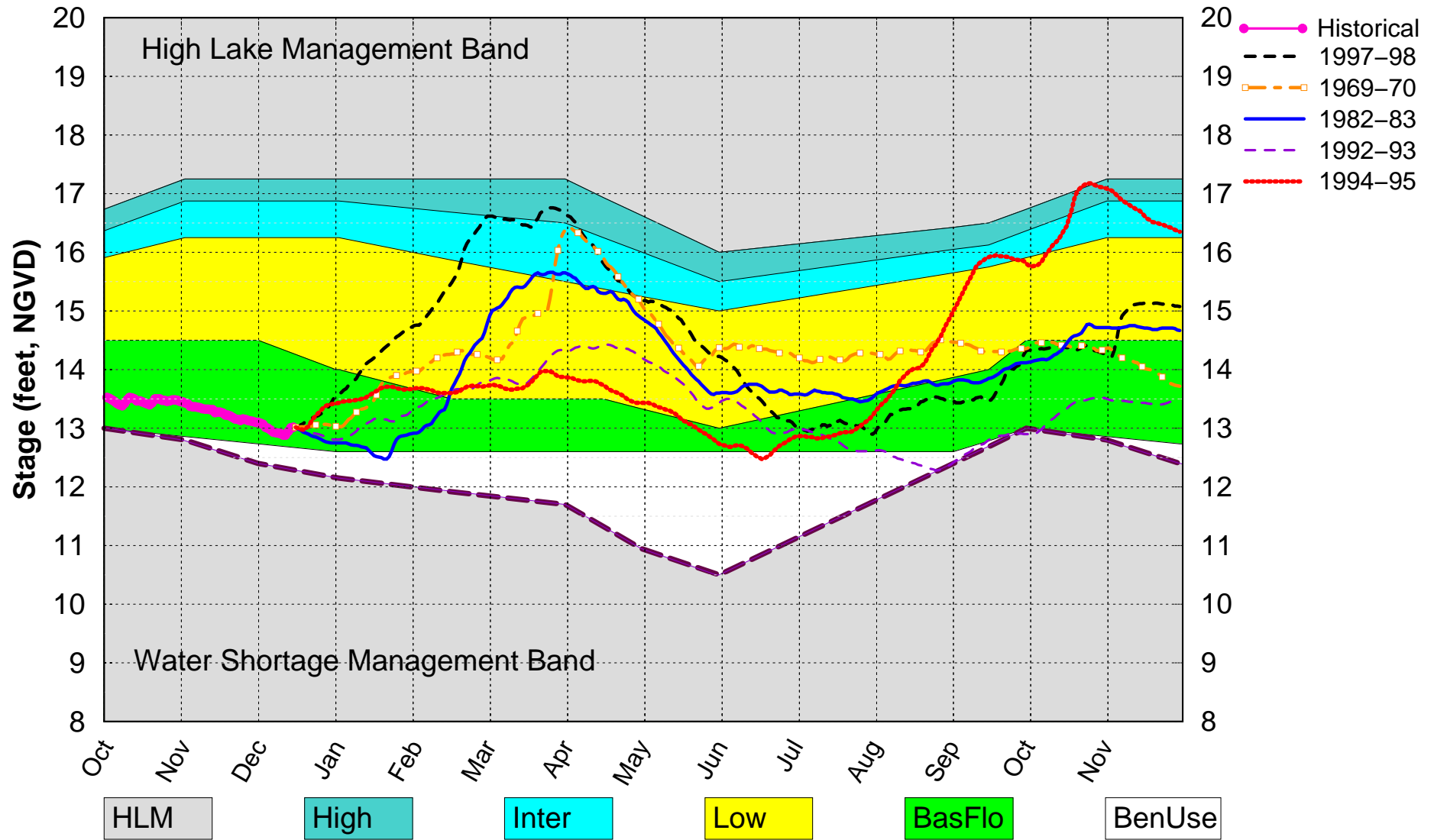
Dry Years Plot PA_MID1



(See assumptions on the Position Analysis Results website)

Lake Okeechobee SFWMM Dec Mid–Mon 2019 Position Analysis

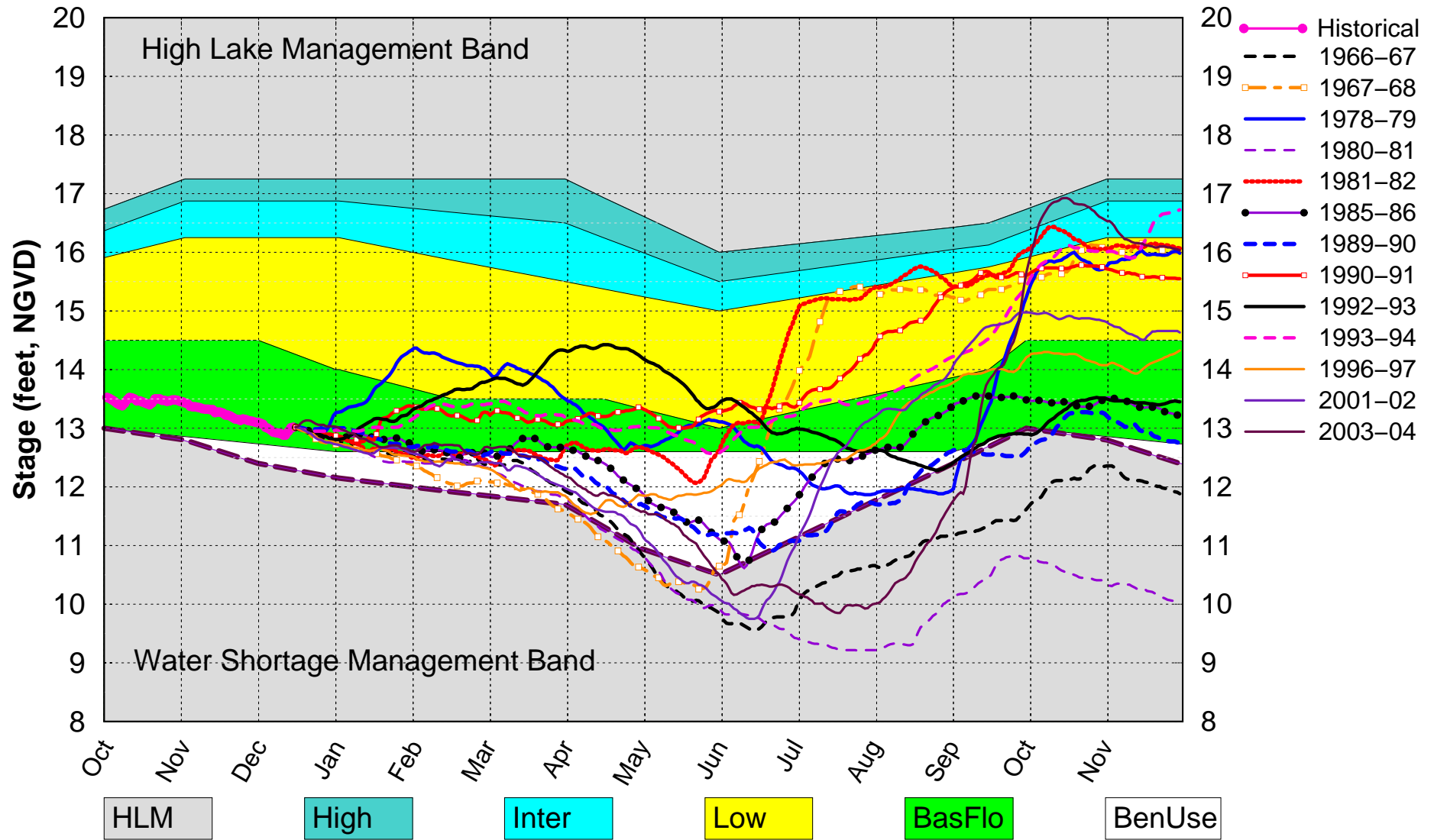
Wet Years Plot PA_MID1



(See assumptions on the Position Analysis Results website)

Lake Okeechobee SFWMM Dec Mid-Mon 2019 Position Analysis

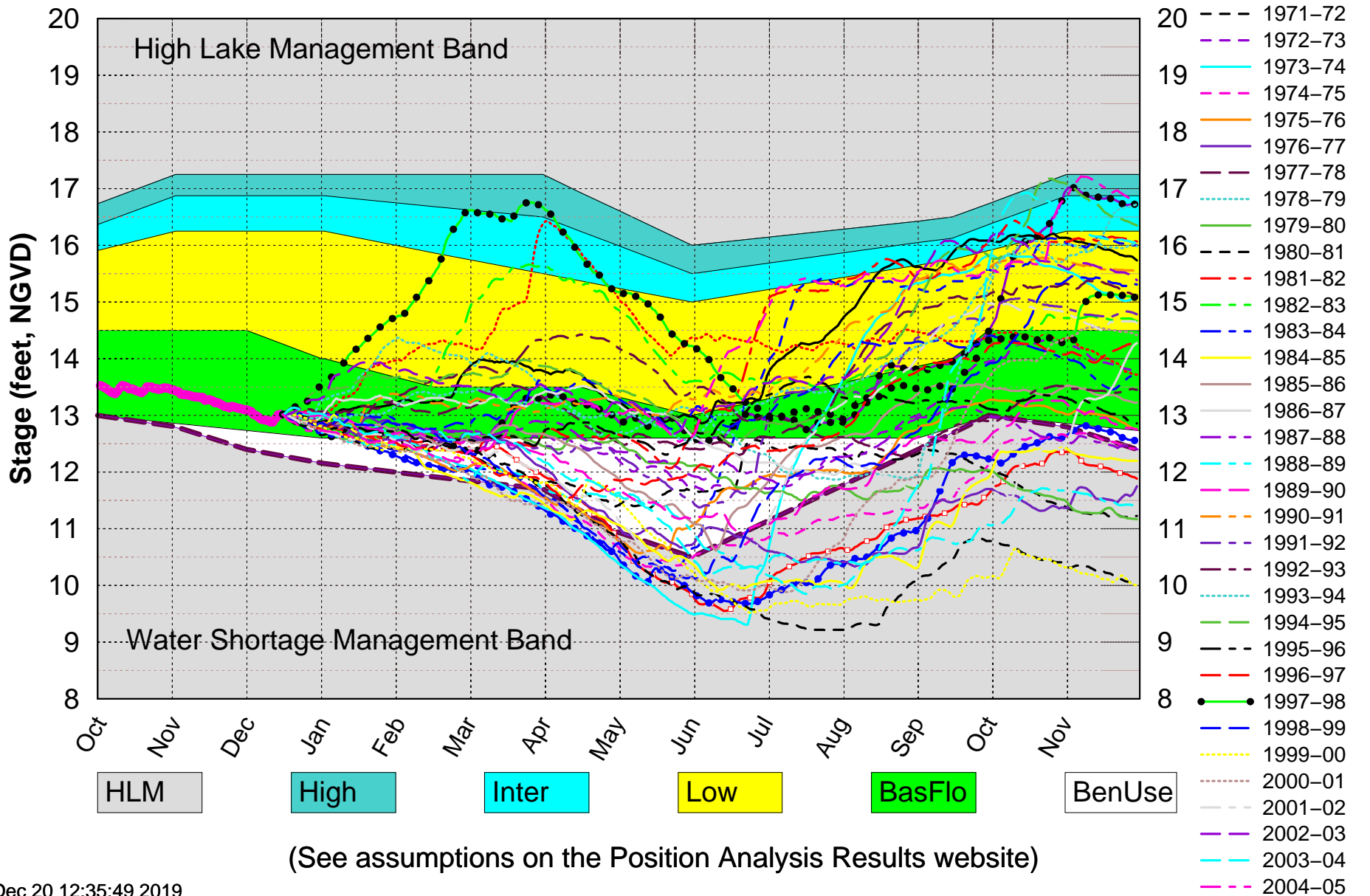
All ENSO Neutral Years Plot PA_MID1



(See assumptions on the Position Analysis Results website)

Lake Okeechobee SFWMM Dec Mid-Mon 2019 Position Analysis

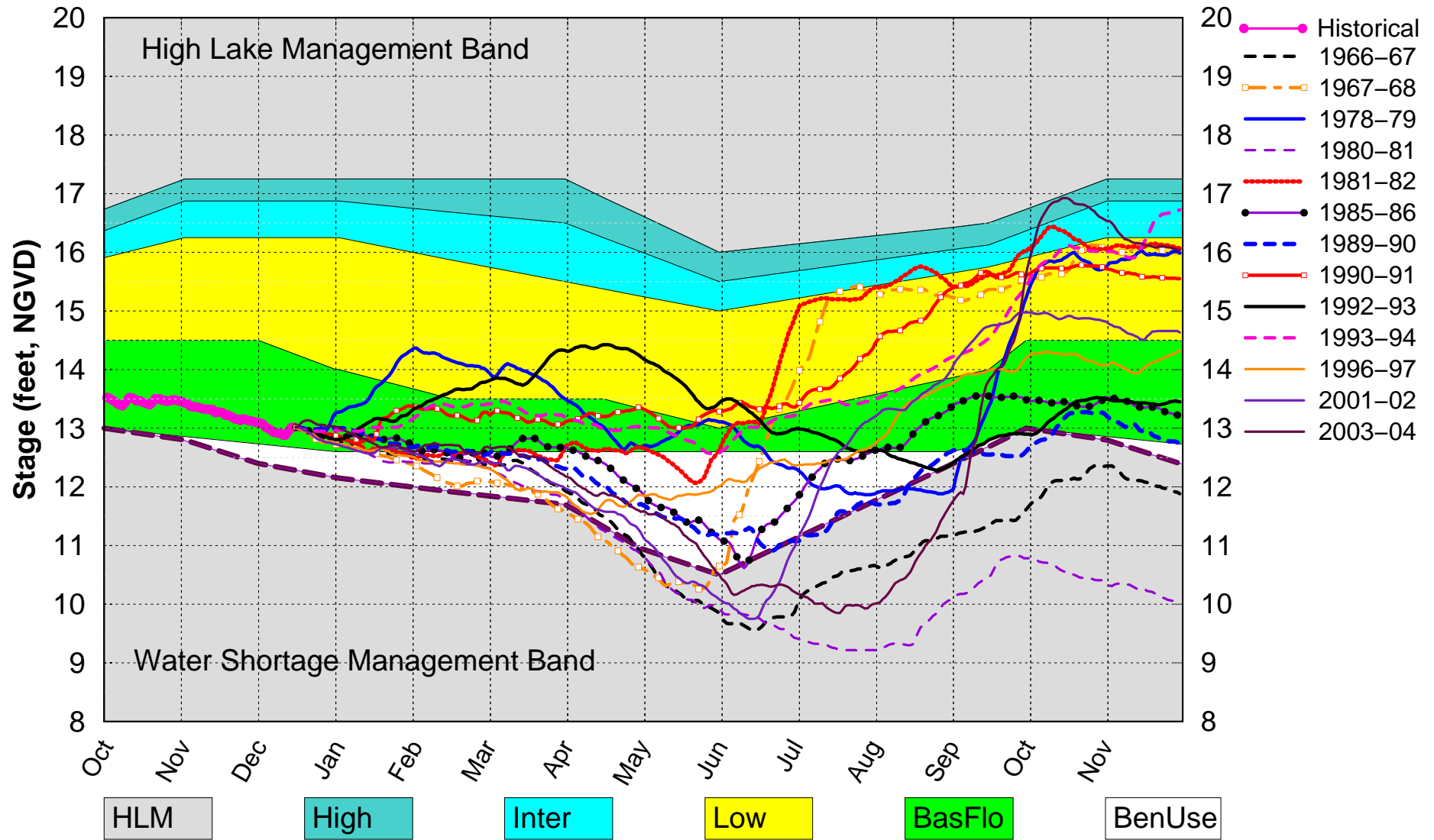
All Simulated Years Plot PA_MID1



(See assumptions on the Position Analysis Results website)

Lake Okeechobee SFWMM Dec Mid-Mon 2019 Position Analysis

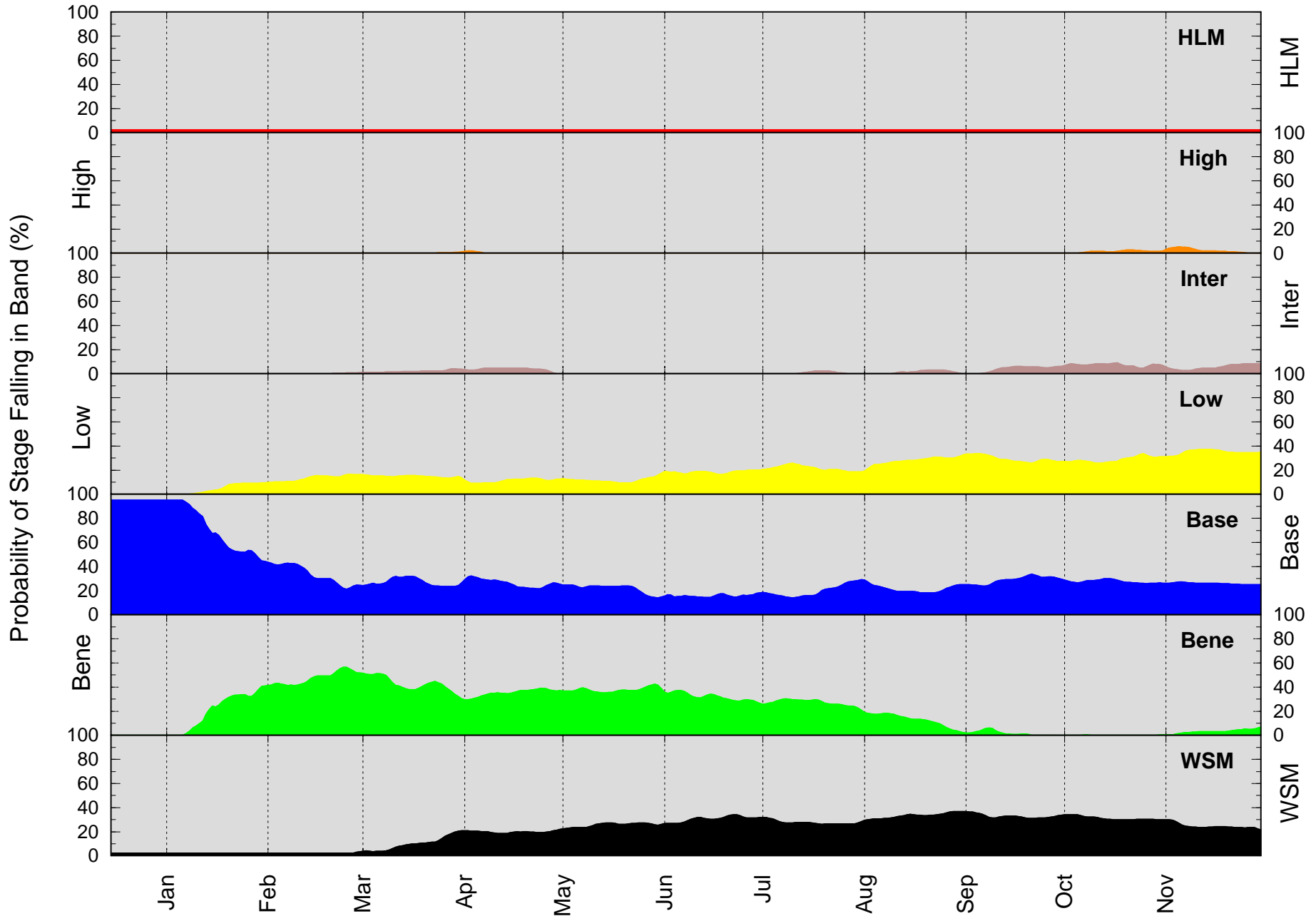
All ENSO Neutral Years Plot PA_MID1



(See assumptions on the Position Analysis Results website)

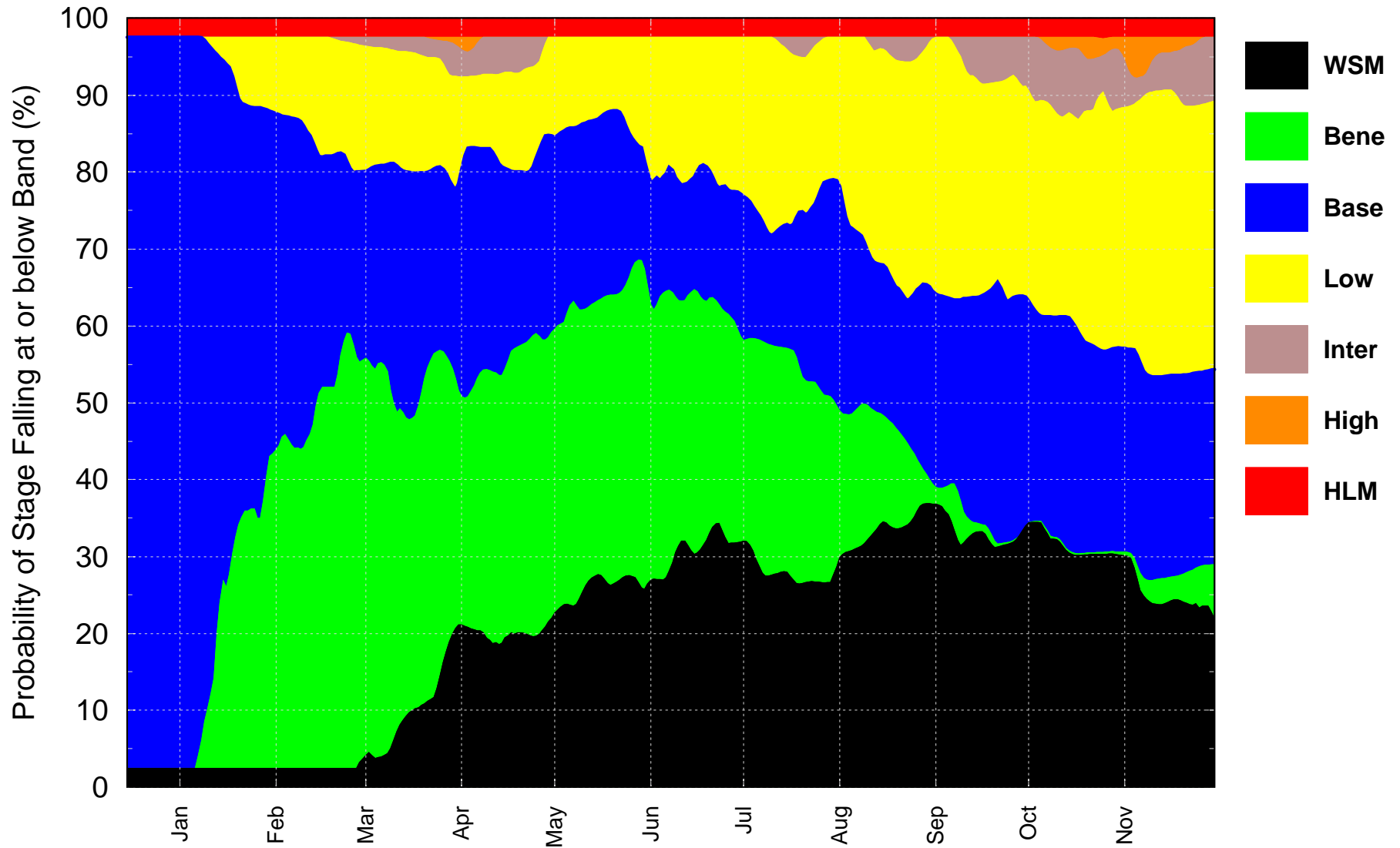
Lake Okeechobee – Band Probabilities

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



Lake Okeechobee – Probabilities for Operational Bands

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



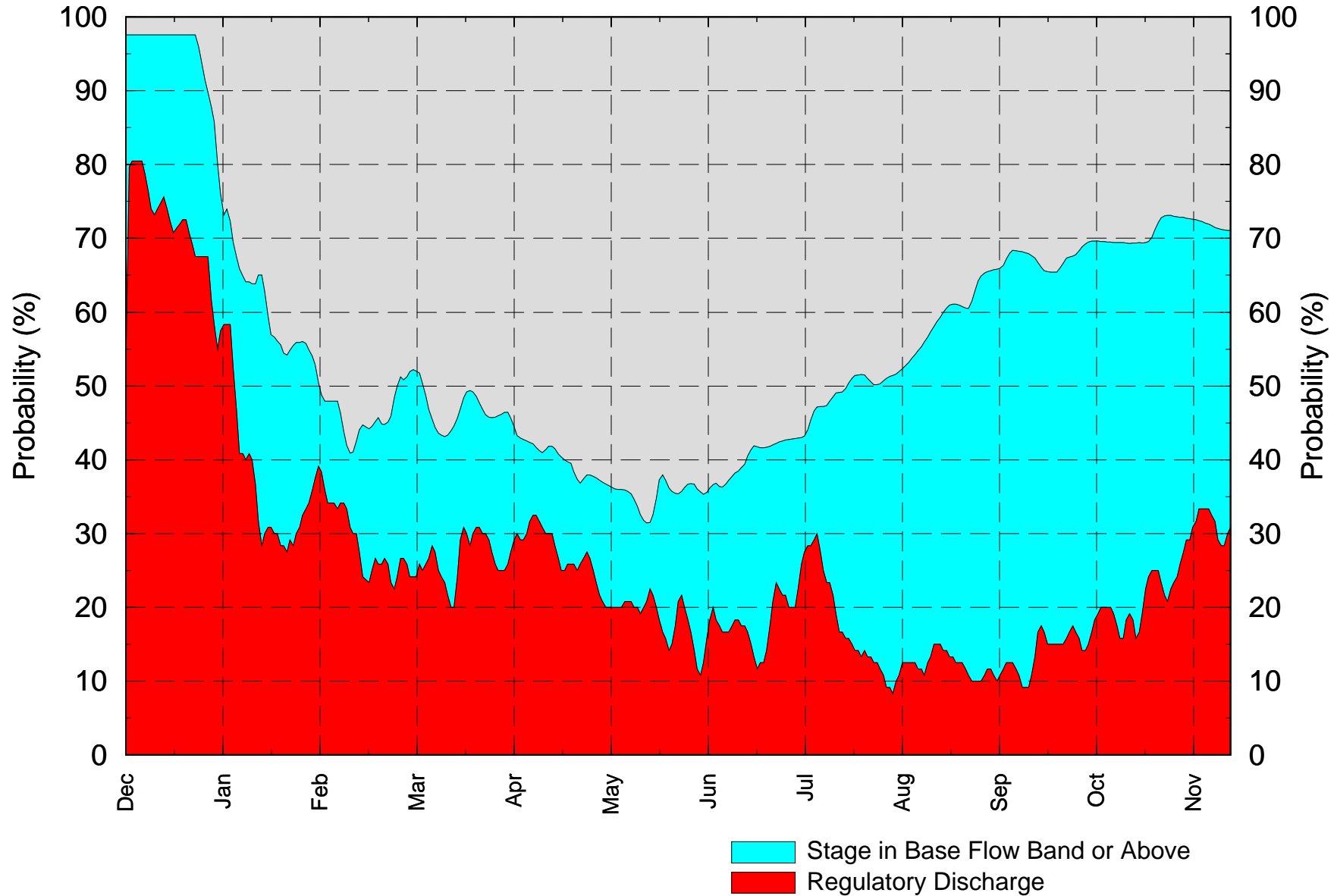
The width for each band gives the probability of stage falling in that band, as defined by the operational schedules.

Lake Okechobee Band Probabilities (%) at the Beginning of Each Month
'(See assumptions on the Position Analysis Results website)'
Initial Stage 13.10 ft. for 12/01/2019

Date	HLM	High	Inter	Low	Base	Bene	WSM
2019 12 01	2.4	0.0	0.0	0.0	95.1	0.0	2.4
2020 01 01	2.4	0.0	0.0	0.0	95.1	0.0	2.4
2020 02 01	2.4	0.0	0.0	10.0	43.7	41.5	2.4
2020 03 01	2.4	0.0	1.2	16.3	24.3	51.6	4.1
2020 04 01	2.4	1.6	3.5	12.1	29.5	29.7	21.1
2020 05 01	2.4	-0.0	0.0	13.1	24.9	37.0	22.7
2020 06 01	2.4	-0.0	0.0	19.0	15.9	35.8	27.0
2020 07 01	2.4	-0.0	0.0	20.7	18.7	26.1	32.0
2020 08 01	2.4	-0.0	0.0	19.5	29.1	19.0	29.9
2020 09 01	2.4	-0.0	0.0	33.4	25.1	2.2	36.8
2020 10 01	2.4	-0.0	7.0	27.3	28.9	0.0	34.4
2020 11 01	2.4	3.1	6.0	31.4	26.4	0.5	30.1

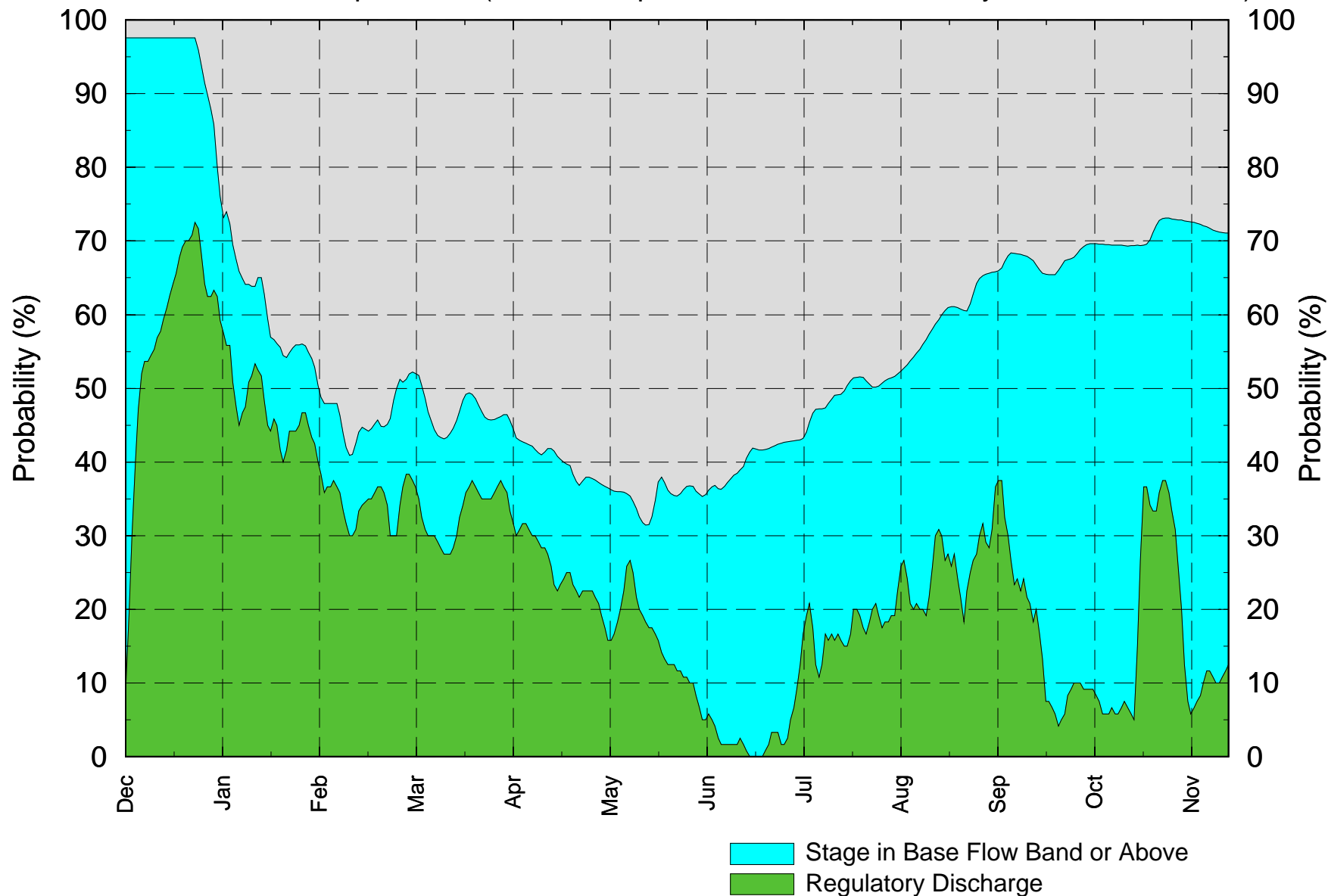
Lake Okeechobee – LORS2008 Releases to the Estuaries

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



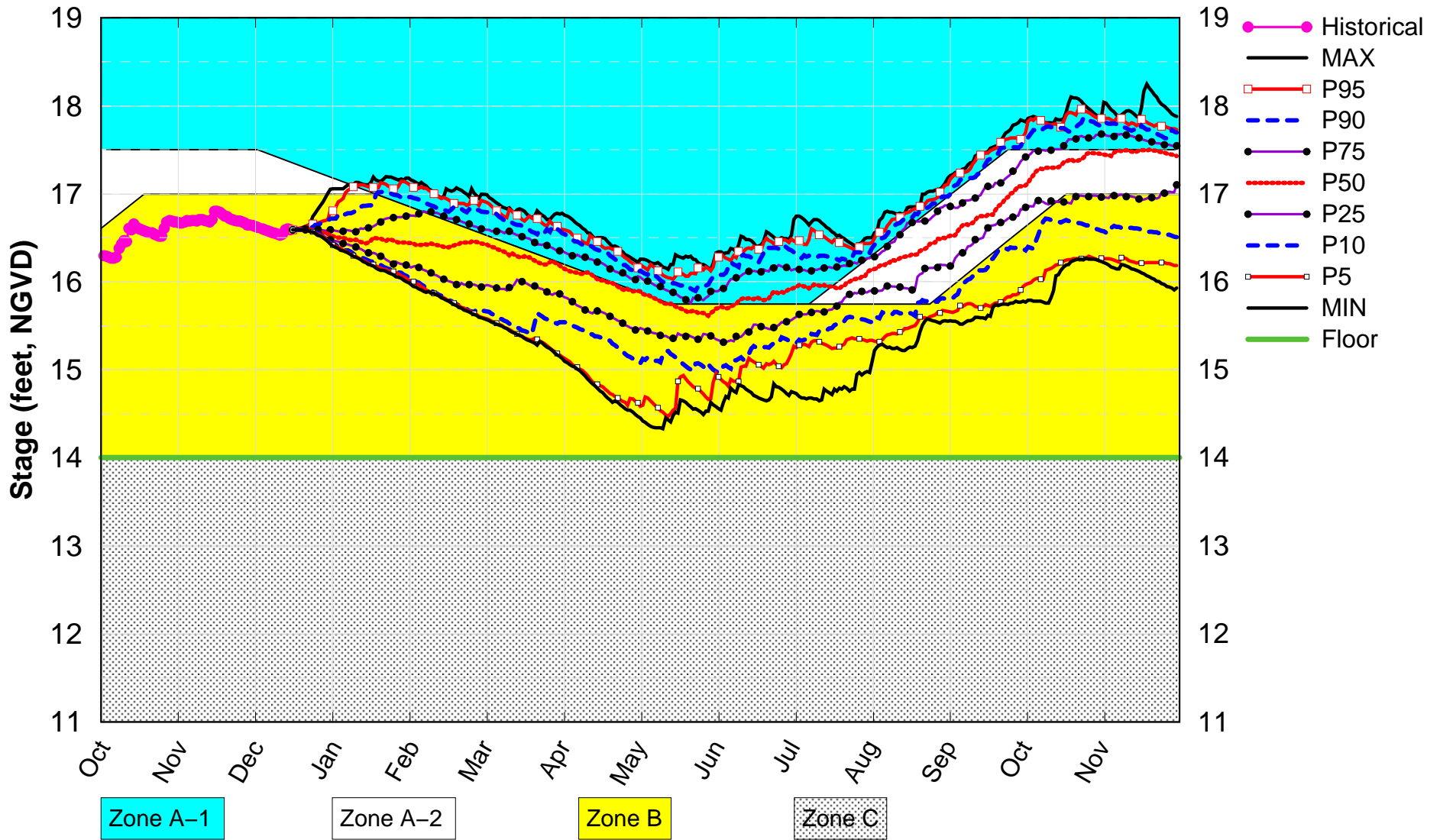
Lake Okeechobee – LORS2008 Releases to the WCA's

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



WCA1 SFWMM Dec Mid-Mon 2019 Position Analysis

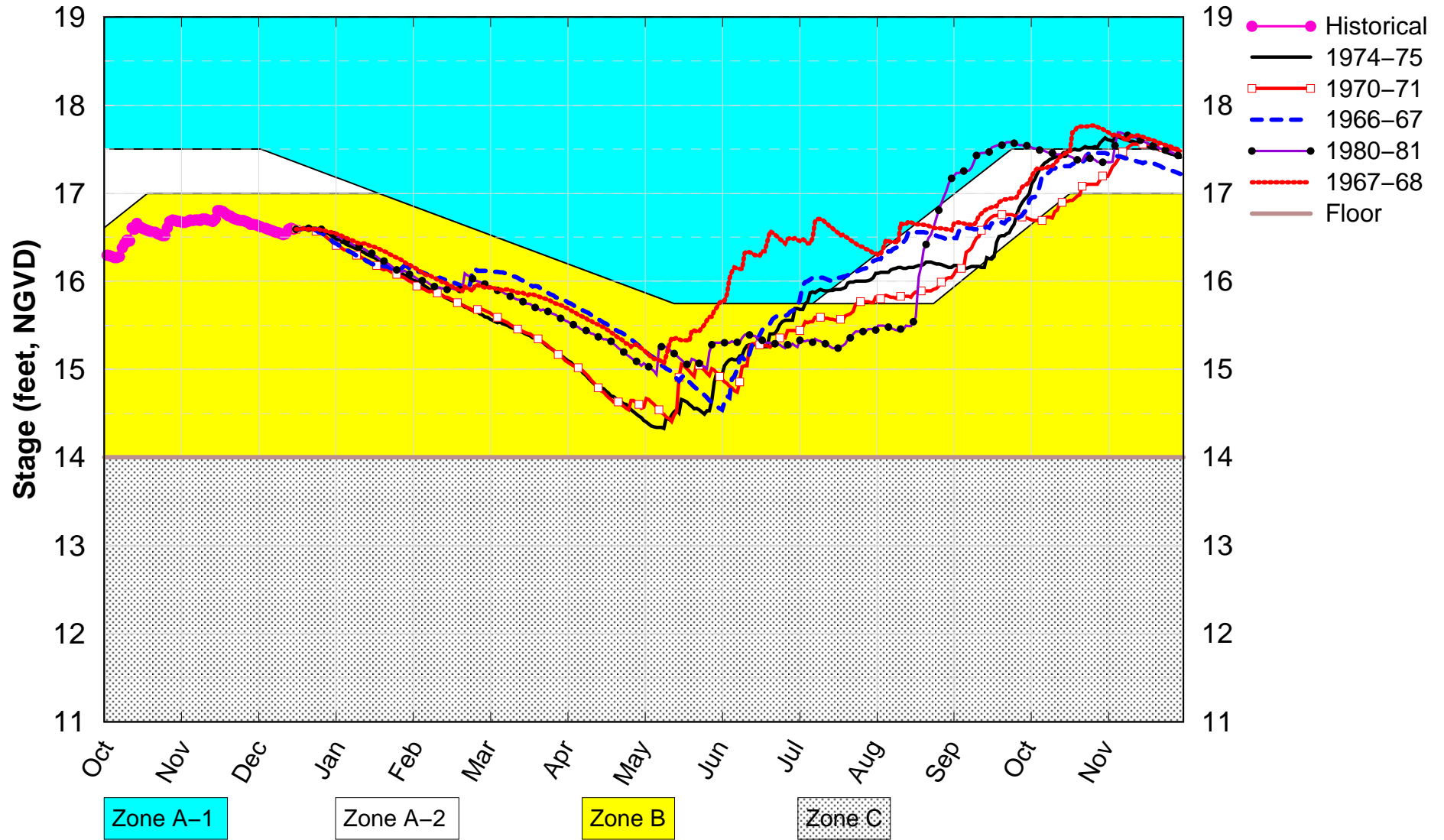
Percentiles PA_MID1



(See assumptions on the Position Analysis Results website)

WCA1 SFWMM Dec Mid-Mon 2019 Position Analysis

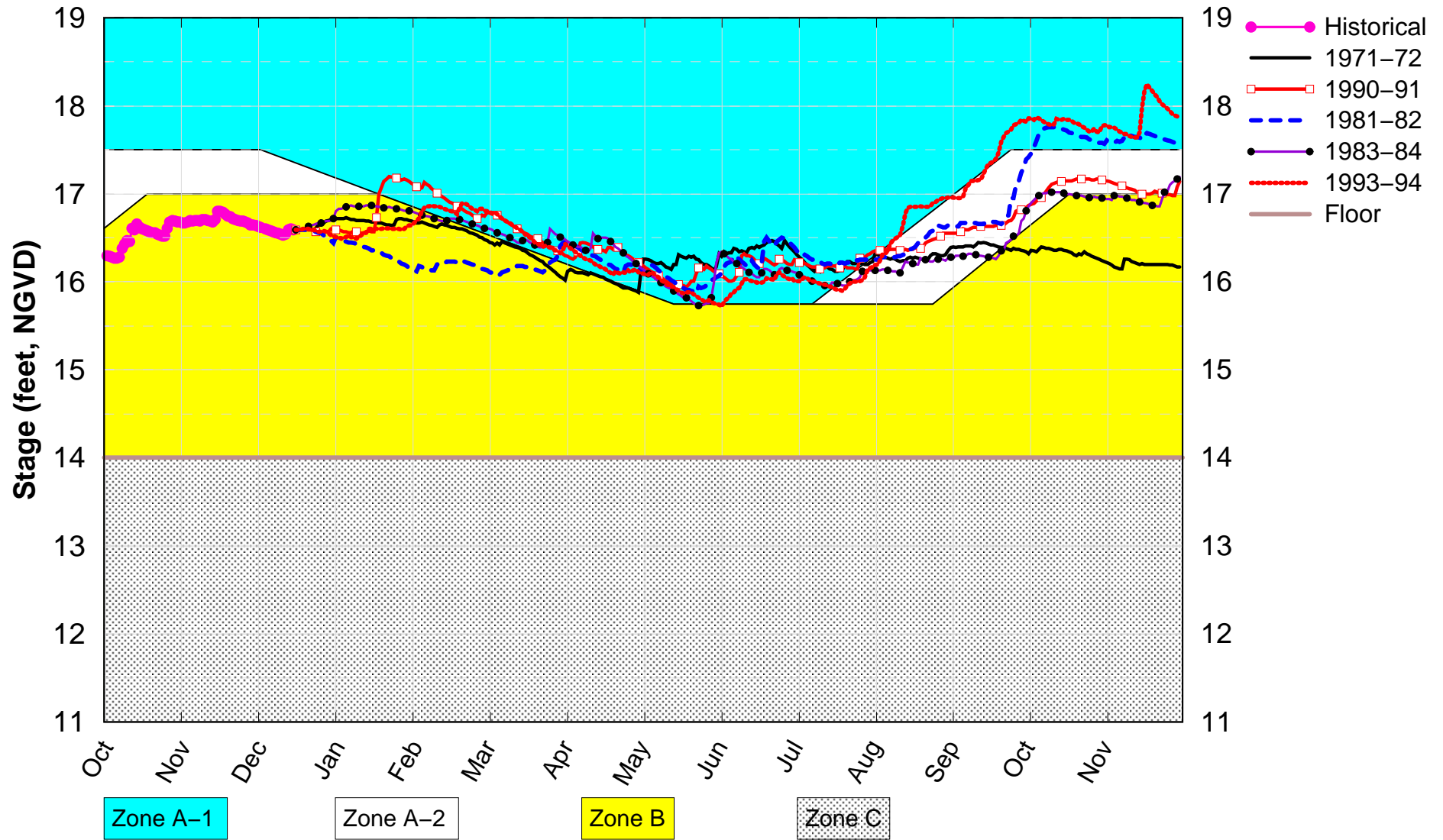
Dry Years Plot PA_MID1



(See assumptions on the Position Analysis Results website)

WCA1 SFWMM Dec Mid-Mon 2019 Position Analysis

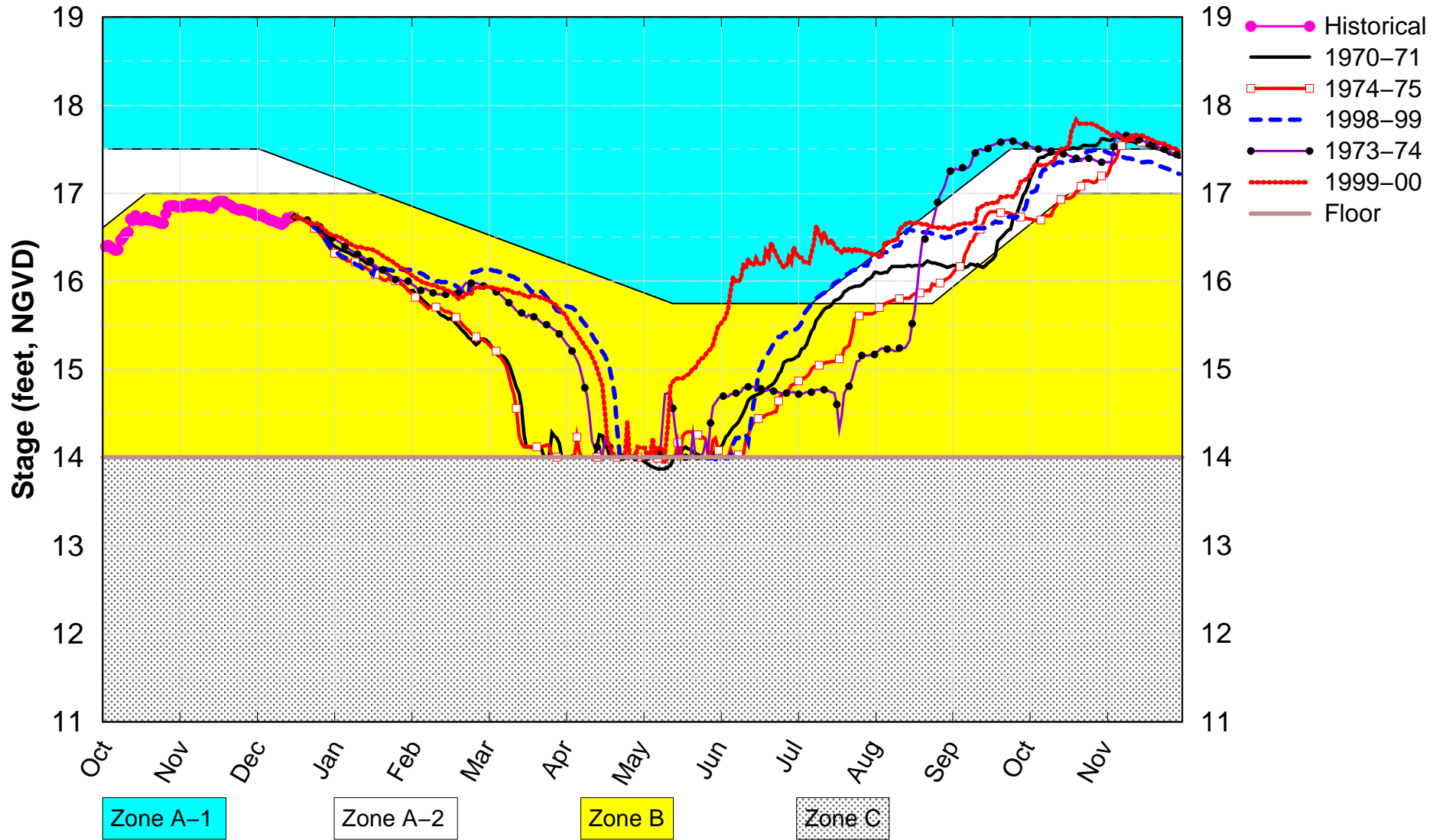
Wet Years Plot PA_MID1



(See assumptions on the Position Analysis Results website)

CA1 Canal SFWMM Dec Mid-Mon 2019 Position Analysis

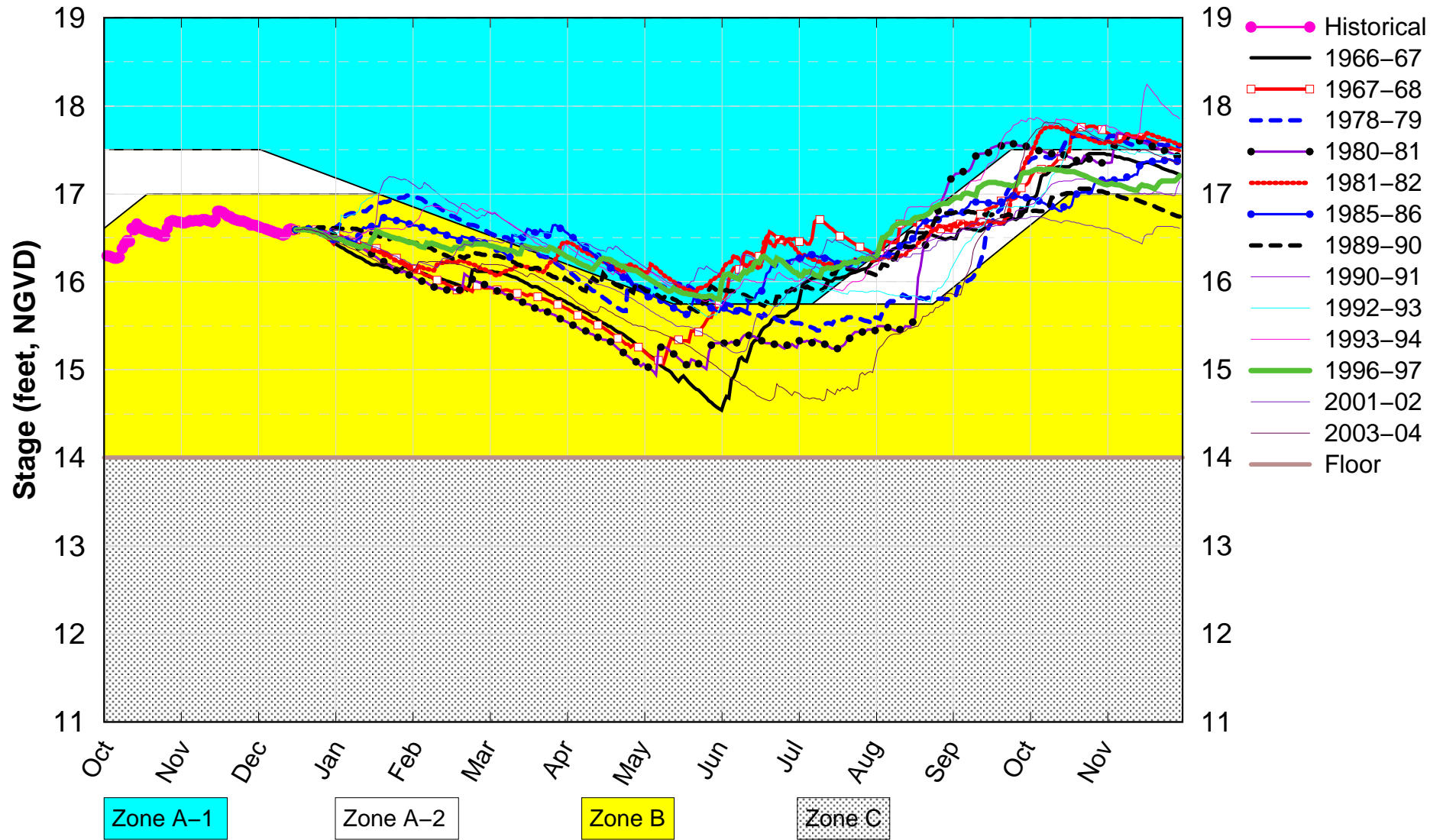
PA_MID1 Dry Years Plot



(See assumptions on the Position Analysis Results website)

WCA1 SFWMM Dec Mid-Mon 2019 Position Analysis

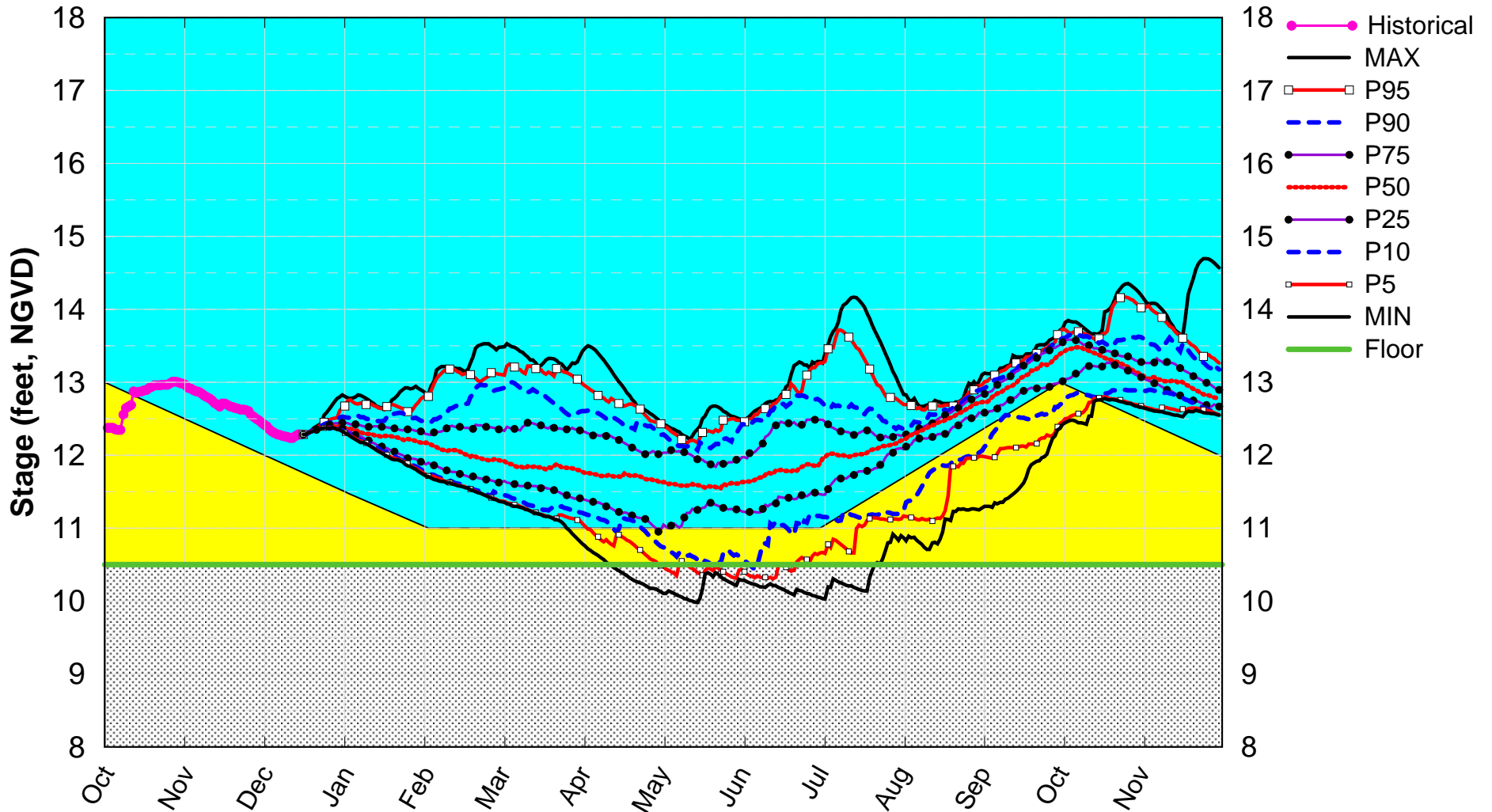
All ENSO Neutral Years Plot PA_MID1



(See assumptions on the Position Analysis Results website)

WCA2A SFWMM Dec Mid-Mon 2019 Position Analysis

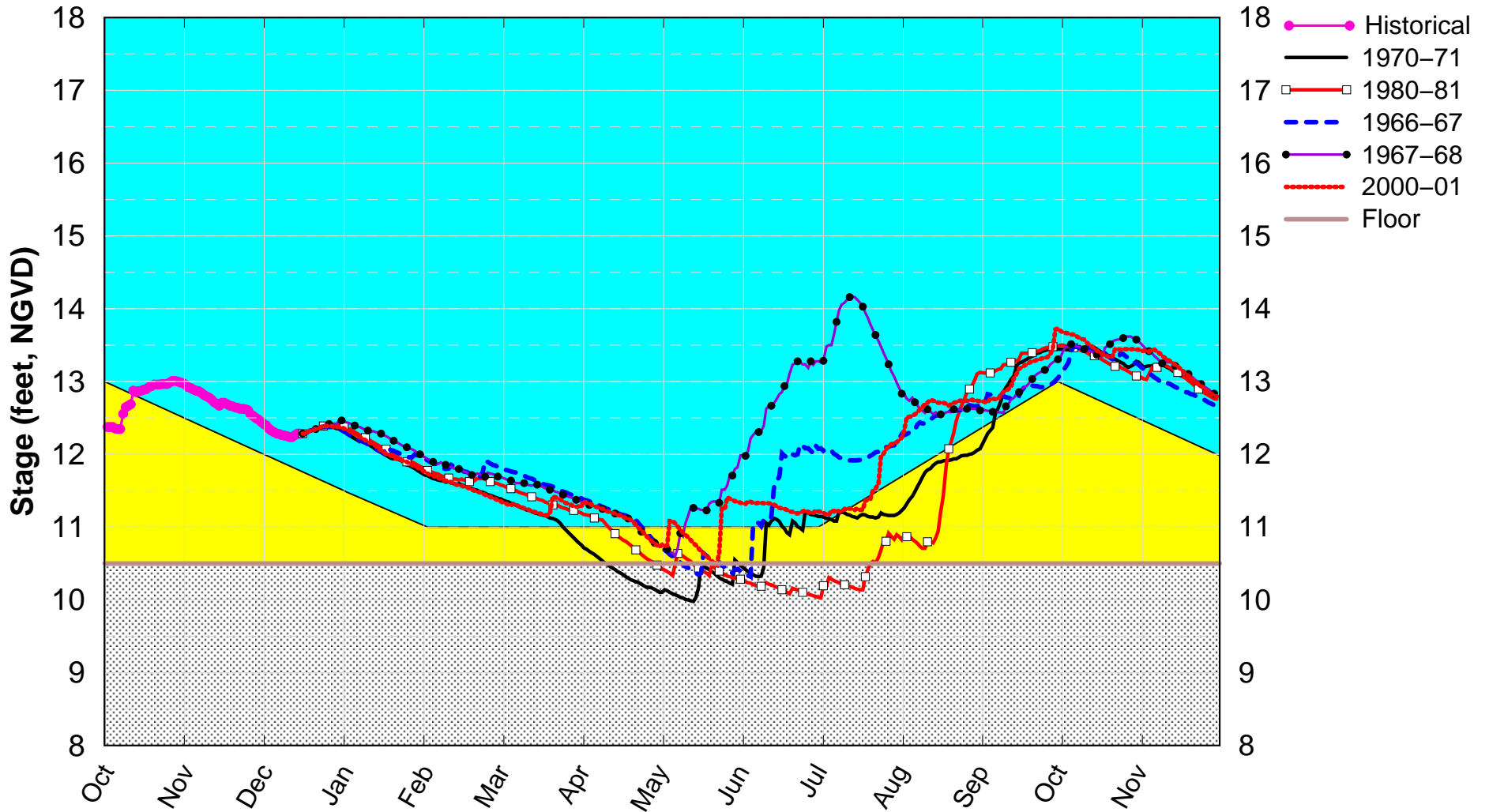
Percentiles PA_MID1



(See assumptions on the Position Analysis Results website)

WCA2A SFWMM Dec Mid-Mon 2019 Position Analysis

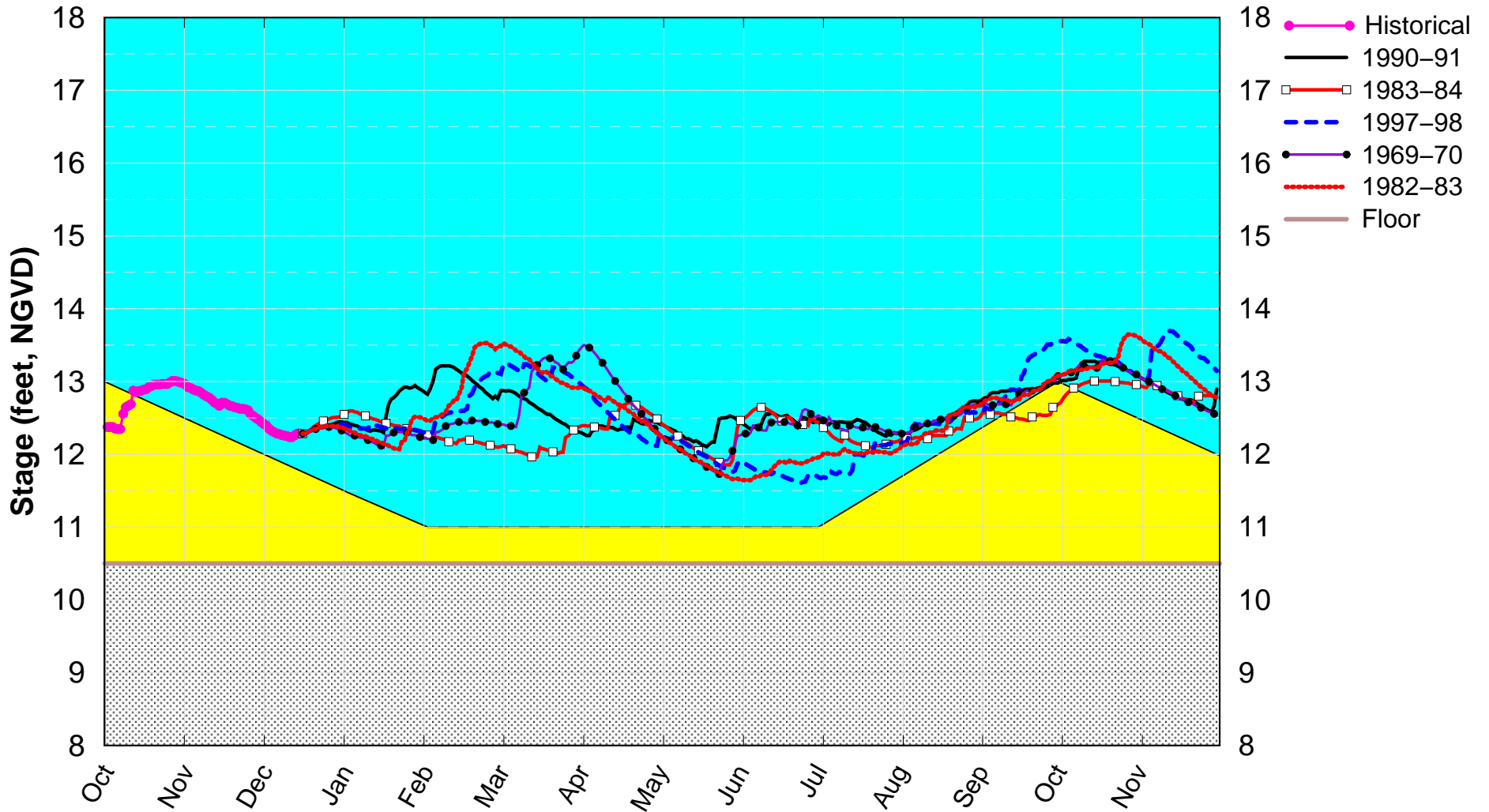
Dry Years Plot PA_MID1



(See assumptions on the Position Analysis Results website)

WCA2A SFWMM Dec Mid-Mon 2019 Position Analysis

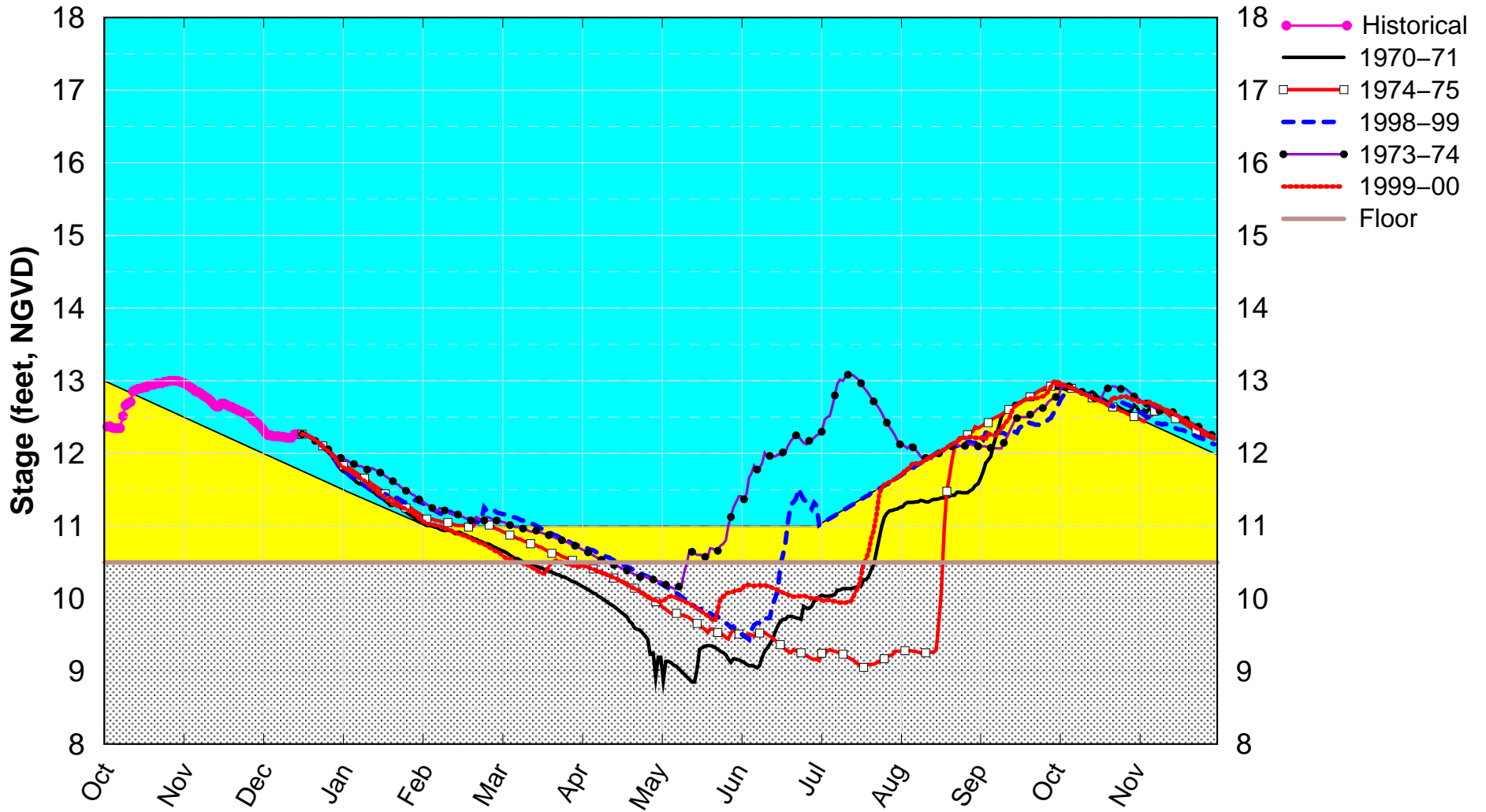
Wet Years Plot PA_MID1



(See assumptions on the Position Analysis Results website)

L38 Canal SFWMM Dec Mid-Mon 2019 Position Analysis

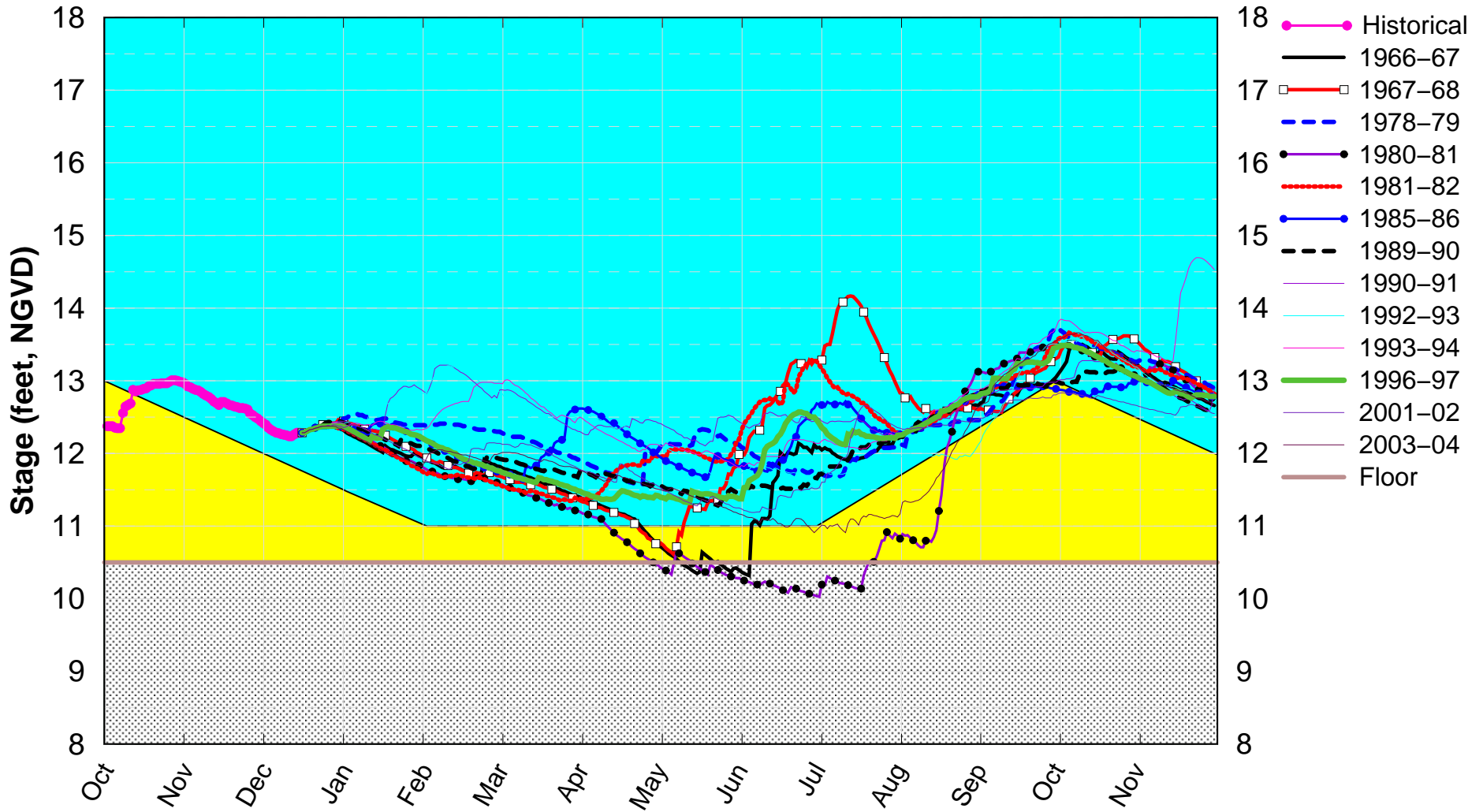
PA_MID1 Dry Years Plot



(See assumptions on the Position Analysis Results website)

WCA2A SFWMM Dec Mid-Mon 2019 Position Analysis

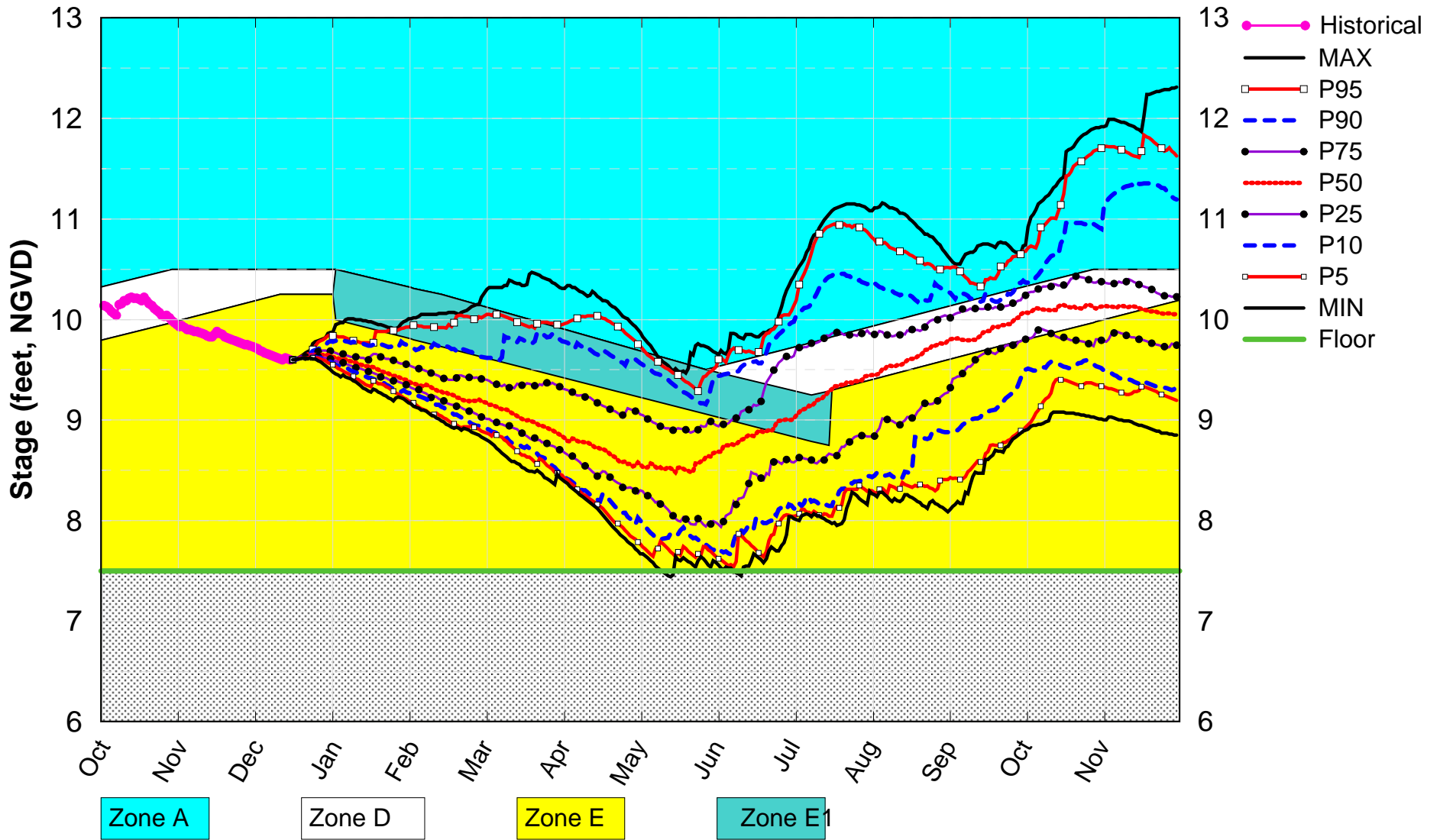
All ENSO Neutral Years Plot PA_MID1



(See assumptions on the Position Analysis Results website)

WCA3A SFWMM Dec Mid-Mon 2019 Position Analysis

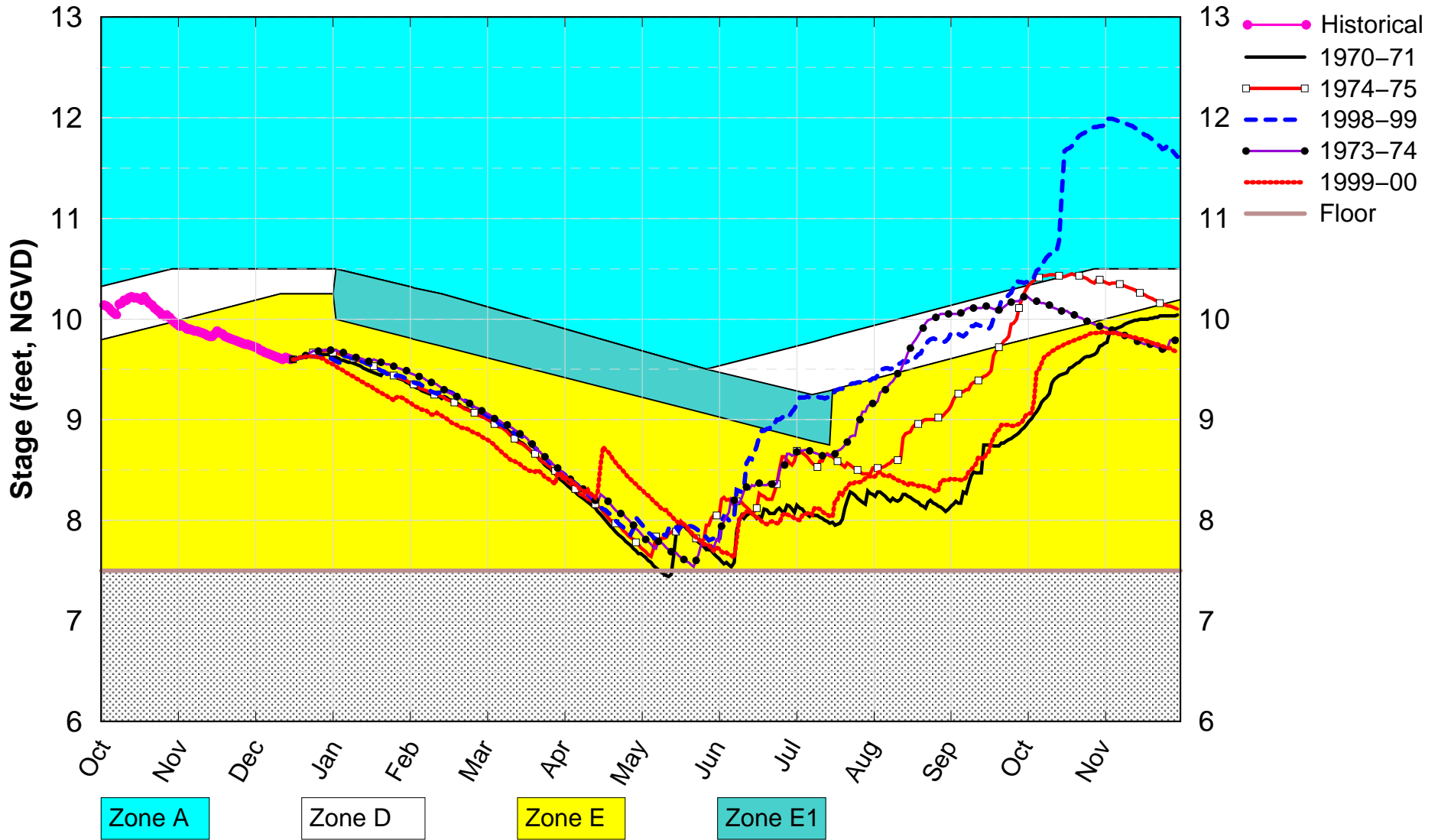
Percentiles PA_MID1



(See assumptions on the Position Analysis Results website)

WCA3A SFWMM Dec Mid-Mon 2019 Position Analysis

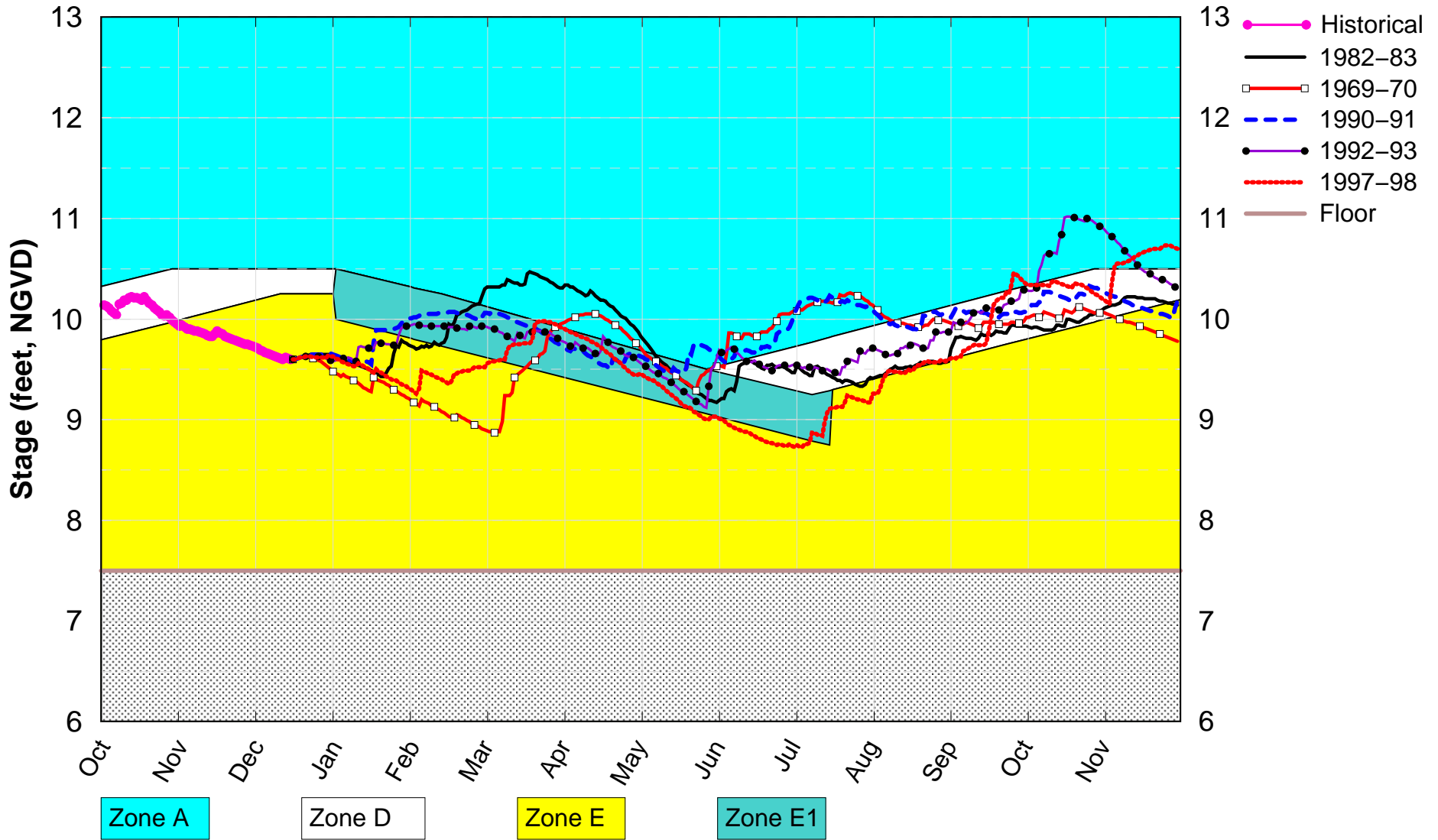
Dry Years Plot PA_MID1



(See assumptions on the Position Analysis Results website)

WCA3A SFWMM Dec Mid-Mon 2019 Position Analysis

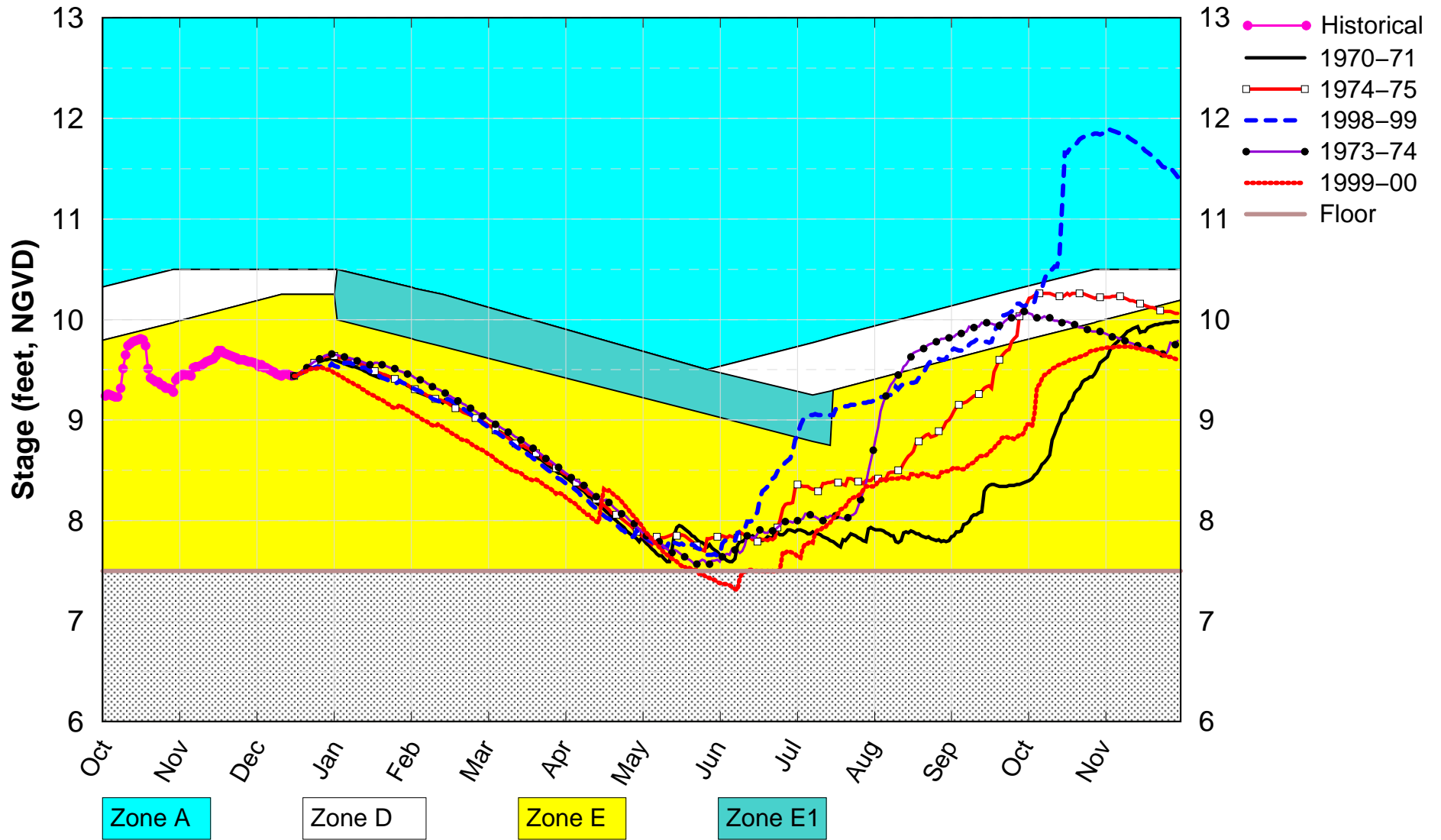
Wet Years Plot PA_MID1



(See assumptions on the Position Analysis Results website)

CA3 Canal SFWMM Dec Mid-Mon 2019 Position Analysis

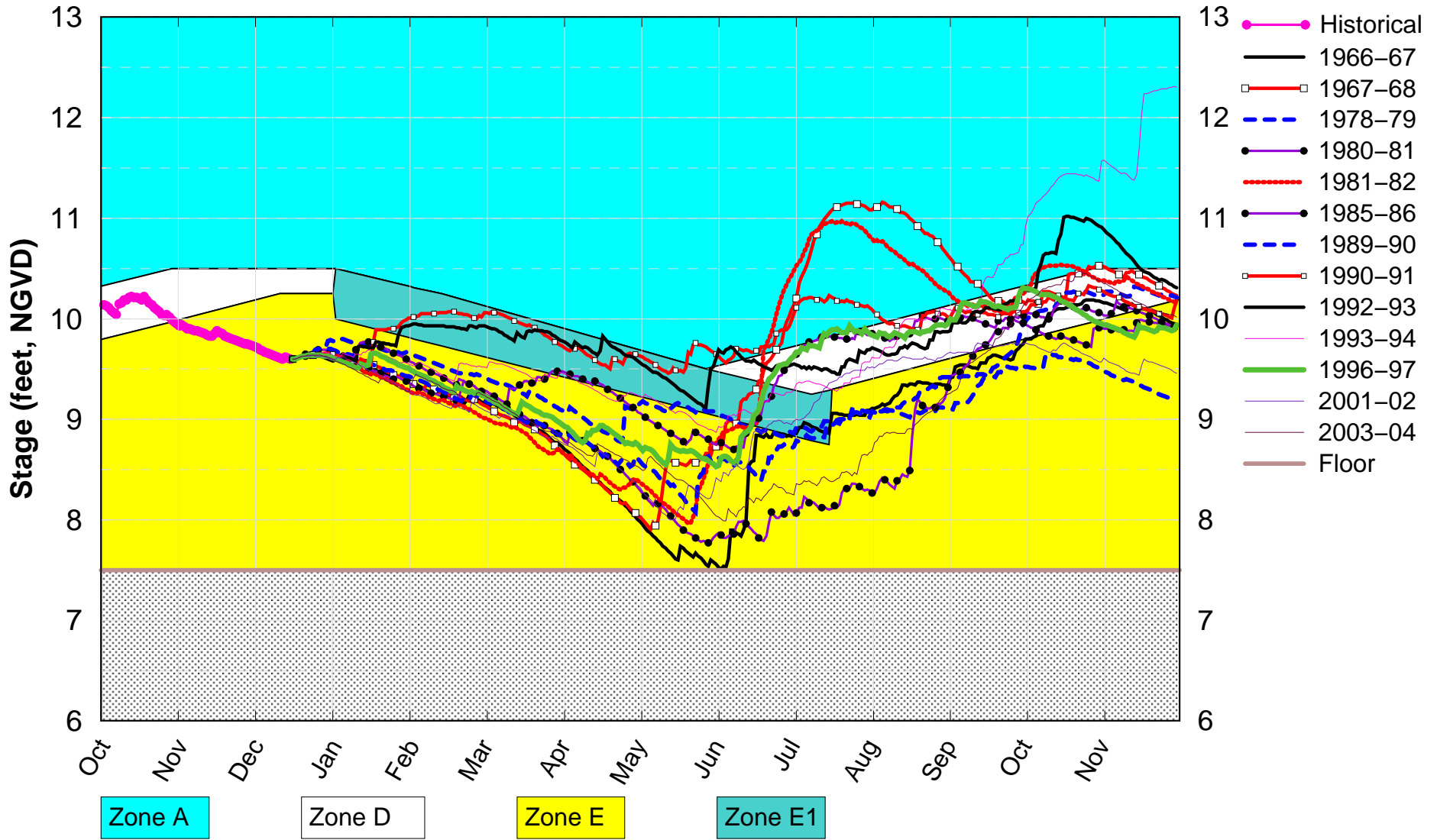
PA_MID1 Dry Years Plot



(See assumptions on the Position Analysis Results website)

WCA3A SFWMM Dec Mid-Mon 2019 Position Analysis

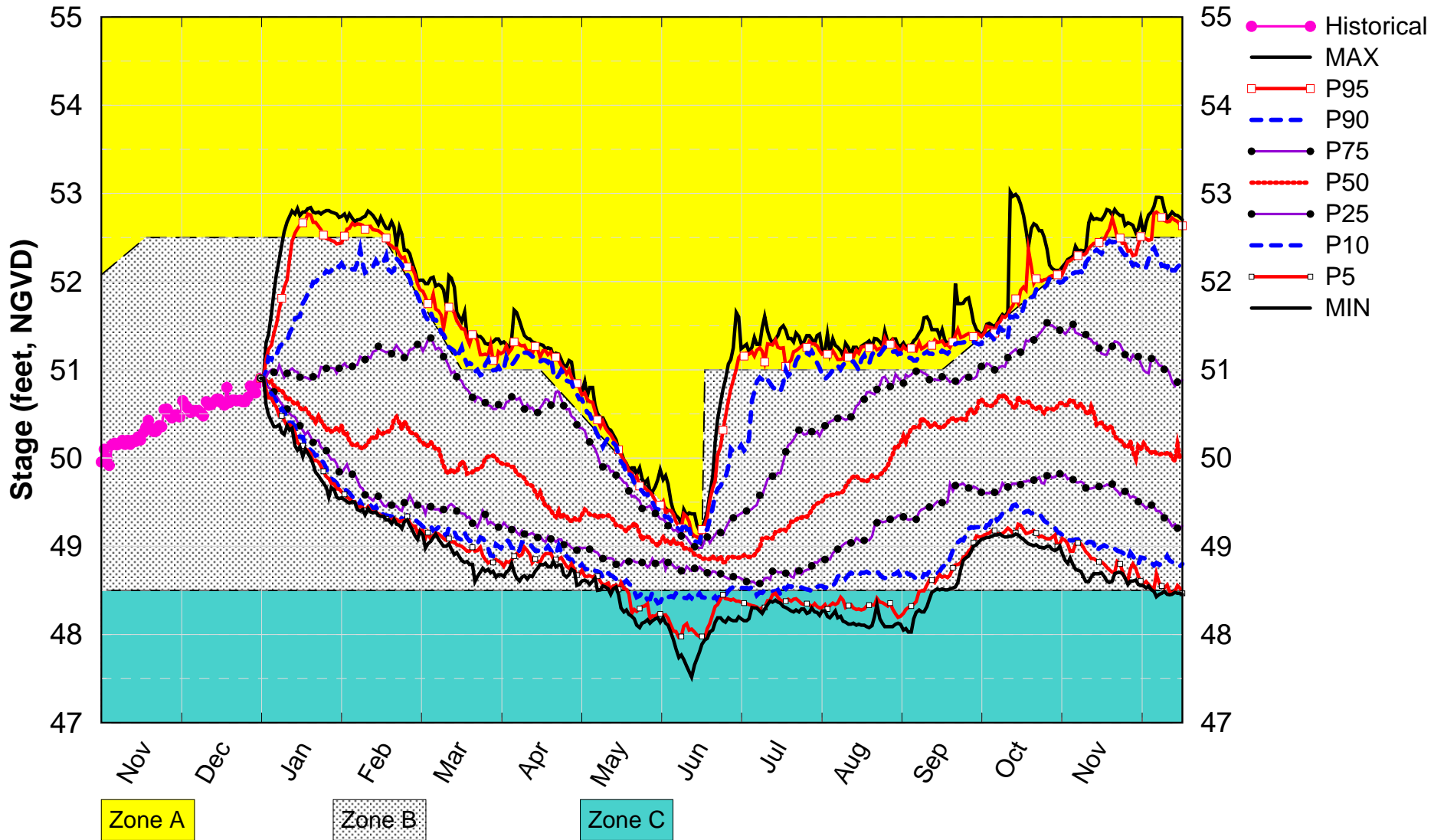
All ENSO Neutral Years Plot PA_MID1



(See assumptions on the Position Analysis Results website)

S65 UK-OPS Dec 15 2019 Position Analysis

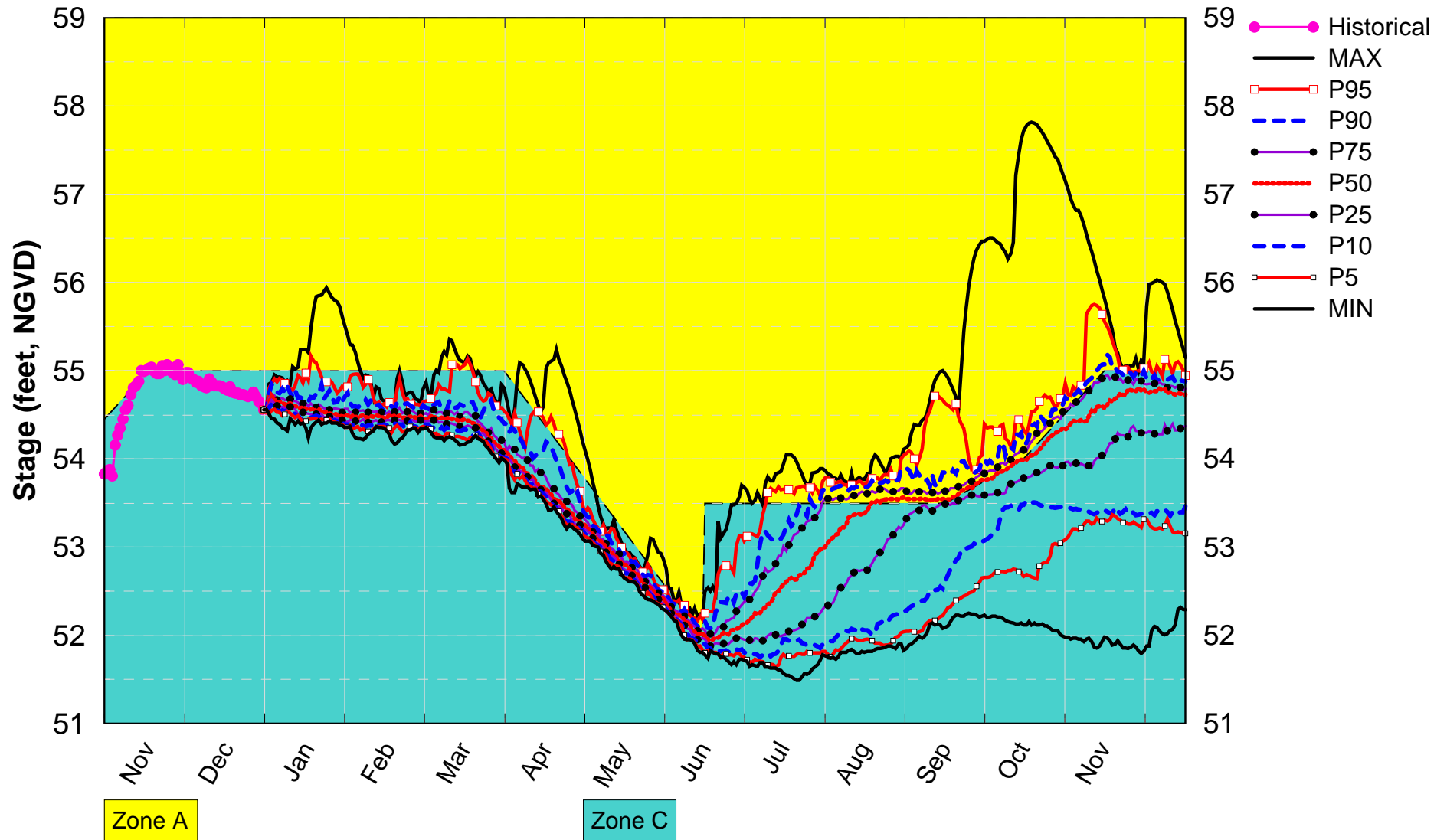
UK-OPS_MID1 Unconditional PA



(See assumptions on the Position Analysis Results website)

S61 UK-OPS Dec 15 2019 Position Analysis

UK-OPS_MID1 Unconditional PA



(See assumptions on the Position Analysis Results website)

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

AREA	:Canal Name	:SFWMM Name	:Location	:SFWMD sensor
stage(ft)				
WPB	:C-18	:C18	:G92-H	: 14.38
WPB	:C-17	:C17	:S44-H	: 7.09
WPB	:C-51W	:C51W	:S5AE-T	: 11.35
WPB	:C-51	:C51	:S155-H	: 8.15
WCA	:WCA-1 L-40	:CA1	:1-8C	: 16.73
FTLD	:Hillsboro Canal	:HLSB	:G56-H	: 8.13
WCA	:WCA-2A L-38	:L38	:S11B-H	: 12.27
WCA	:WCA-2A L-39	:CA2A	:S10A-T	: 12.65
FTLD	:C-14	:C14	:S37B-H	: 7.37
FTLD	:C-14E	:C14E	:S37A-H	: 4.38
FTLD	:Pompano	:POMP	:G57-H	: 5.04
FTLD	:C-12	:C12	:S33-H	: 3.93
FTLD	:C-13	:C13	:S36-H	: 5.18
FTLD	:North New River Canal	:NNRC	:G54-H	: 4.87
MIAMI	:L-33	:L33	:S30-H	: 5.84
MIAMI	:C-304	:C304	:S31-H	: 7.62
MIAMI	:C-9	:C9	:S29-H	: 2.65
MIAMI	:C-9 DEN	:C9DEN	:S29-H	: 2.65
MIAMI	:C-8	:C8	:S28-H	: 2.02
MIAMI	:C-7	:C7	:S27-H	: 1.91
MIAMI	:C-6	:C6	:S26-H	: 2.89
MIAMI	:C-2/C-4	:C4	:S25B-H	: 2.94
MIAMI	:L-30	:L30	:S335-H	: 6.76
WCA	:WCA-3A L-29	:CA3	:S333-H	: 9.44
WCA	:S-12A	:S12AD	:S12A-T	: 7.99
WCA	:S-12B	:S12BD	:S12B-T	: 8.13
WCA	:S-12C	:S12CD	:S12C-T	: 8.15
WCA	:S-12D	:S12DD	:S12D-T	: 7.10
MIAMI	:L-29	:L29	:S334-H	: 7.10
MIAMI	:C-100C	:C100C	:S119-H	: 2.78
MIAMI	:C-100	:C100	:S118-H	: 3.04
MIAMI	:C-100A	:C100A	:S123-H	: 2.65
HMST	:C-1/S-148	:S148U	:S148-H	: 3.84
HMST	:L-31N	:L31N	:S331-H	: 5.36
HMST	:C-1N	:C1N	:S149-H	: 2.77
MIAMI	:S-21	:S21	:S21-H	: 2.29
HMST	:L-31S	:L31S	:S176-H	: 4.27
MIAMI	:C-102N	:C102N	:S21A-H	: 1.54
HMST	:C-102	:C102	:S165-H	: 3.49
MIAMI	:C-103S	:C103S	:S167-H	: 3.25
HMST	:C-103N	:C103N	:S166-H	: 2.82
HMST	:C-103	:S179	:S179-H	: 2.44
HMST	:L-31W	:L31W	:S332-H	: 4.23
HMST	:C-111	:C111	:S177-H	: 3.12
HMST	:CNO	:CNO	:S179-H	: 2.44
HMST	:C-111E	:C111E	:S18C-H	: 2.37
HMST	:S-197	:S197	:S197-H	: 2.16
EAA	:L-23E	:L23E	:S8-T	: 10.46
EAA	:C-60	:C60	:S140-T	: 10.25

SFWMM Name	col	row	STAGE	Source	Data	match	domain	match areas
1-7	31	48	16.59	USACE		PA	CA1	
1-8T	34	47	16.59	USACE		PA	CA1	
1-9	33	46	16.60	USACE		PA	CA1	
2-17	29	40	12.29	USACE		PA	CA2	
2-159	28	43	13.15	SFWMD-ARDAMS		PA	CA2	
3-99	30	35	10.74	USACE			CA2	
3A-2	18	36	10.49	USACE		PA	CA3	
3A-3	25	37	9.63	USACE		PA	CA3	
3A-28	19	24	9.43	USACE		PA	CA3	
3A-4	21	29	9.75	USACE		PA	CA3	
3A-NW	18	40	10.71	SFWMD-ARDAMS			CA3	
3A-NE	23	40	9.68	SFWMD-ARDAMS			CA3	
3A-SW	16	30	9.67	SFWMD-ARDAMS			CA3	
3A-S	20	33	9.94	SFWMD-ARDAMS			CA3	
3-76	27	30	7.70	USACE				
3-71	24	26	7.93	USACE				
SHARK	24	23	7.71	USACE			CA3	
3BS1W	26	23	7.24	SFWMD-ARDAMS				
HOLY1	19	45	11.47	SFWMD-ARDAMS			WMA	
HOLY2	21	42	11.47	SFWMD-ARDAMS			WMA	
ROTTN	15	46	12.74	SFWMD-OPERATIONS			WMA	
ROTTT	16	43	12.73	SFWMD-OPERATIONS			WMA	
NP205	15	20	5.07	USACE			ENP	
NP201	19	21	7.16	USACE			ENP	
NP36	17	14	4.52	USACE			ENP	
NP38	16	9	1.99	USACE			ENP	
NP46	17	7	1.76	USACE			ENP	
NP67	22	7	2.36	USACE				
NP33	20	17	6.42	USACE			ENP	
NP34	13	17	2.51	USACE			ENP	
NP44	19	11	3.64	USACE			ENP	
NP206	21	15	6.22	USACE			ENP	
NESR2	25	21	6.96	USACE			ENP	
THSO	23	9	3.77	USACE				
RG2	23	15	5.72	USACE			ENP	
G3273	24	17	6.59	USACE		PA	ENP	
ANGEL	25	17	5.84	USACE		PA		
ANGEL	26	17	5.84	USACE		PA		
EVER4	25	8	2.23	USACE		PA	SA3	
E112	23	10	4.79	USACE			ENP	
G620	18	19	6.40	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 13.10 ft. for 12/01/2019

Date	HLM	High	Inter	Low	Base	Bene	WSM
2019 12 01	2.4	0.0	0.0	0.0	95.1	0.0	2.4
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2020 08 01	2.4	-0.0	0.0	19.5	29.1	19.0	29.9
2020 09 01	2.4	-0.0	0.0	33.4	25.1	2.2	36.8
2020 10 01	2.4	-0.0	7.0	27.3	28.9	0.0	34.4
2020 11 01	2.4	3.1	6.0	31.4	26.4	0.5	30.1

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1968	10	0	0	0.54	0.00	0.00	0.00	0.00	0.00	0.00
1968	11	0	0	34.96	0.00	0.00	0.00	0.00	0.00	0.00
1968	12	0	0	58.15	0.00	0.00	0.00	0.00	0.00	0.00
1969	1	0	0	25.61	0.00	0.00	0.00	0.00	0.00	0.00
1969	2	0	0	46.14	0.00	0.00	0.00	0.00	0.00	0.00
1969	3	0	0	12.25	0.00	0.00	0.00	0.03	0.00	0.03
1969	4	0	0	64.58	0.00	0.00	0.00	0.00	0.00	0.00
1969	5	0	0	25.80	0.00	0.00	0.00	0.00	0.00	0.00
1969	6	0	0	22.66	0.00	0.00	0.00	0.00	0.00	0.00
1969	7	0	0	22.33	0.00	0.00	0.11	0.50	0.11	0.50
1969	8	0	0	1.41	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	7.49	0.00	0.00	0.00	0.00	0.00	0.00
1969	11	0	0	10.95	0.00	0.00	0.00	0.00	0.00	0.00
1969	12	0	0	38.14	0.00	0.00	0.00	0.00	0.00	0.00
1970	1	0	0	4.13	0.00	0.00	0.00	0.00	0.00	0.00
1970	2	0	0	11.38	0.00	0.00	0.00	0.00	0.00	0.00
1970	3	0	0	14.03	0.00	0.00	0.00	0.00	0.00	0.00
1970	4	0	0	73.50	0.00	0.00	0.00	0.00	0.00	0.00
1970	5	0	0	161.39	0.00	0.00	0.02	0.02	0.02	0.02
1970	6	0	0	9.42	0.00	0.00	0.00	0.00	0.00	0.00
1970	7	0	0	10.34	0.00	0.00	0.00	0.00	0.00	0.00
1970	8	0	0	6.26	0.00	0.00	0.00	0.00	0.00	0.00
1970	9	0	0	8.73	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
1970	10	0	0	9.86	0.00	0.00	0.00	0.00	0.00	0.00
1970	11	0	0	87.86	0.00	0.00	0.00	0.00	0.00	0.00
1970	12	0	0	57.77	0.00	0.00	0.00	0.00	0.00	0.00
1971	1	0	0	62.17	0.00	0.00	0.00	0.00	0.00	0.00
1971	2	0	0	48.05	0.00	0.00	0.02	0.05	0.02	0.05
1971	3	22	14	116.61	13.21	11.32	0.00	0.00	13.21	11.33
1971	4	30	26	178.83	30.78	17.21	0.00	0.00	30.78	17.21
1971	5	31	12	117.44	37.06	31.56	4.55	3.87	41.61	35.43
1971	6	30	4	36.49	3.30	9.03	1.55	4.26	4.85	13.29
1971	7	31	0	0.70	0.00	0.00	0.00	0.00	0.00	0.00
1971	8	31	1	4.46	0.18	4.01	0.00	0.00	0.18	4.01
1971	9	30	0	12.64	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1971	10	31	3	14.62	4.87	33.34	0.00	0.00	4.87	33.34
1971	11	4	0	40.45	0.00	0.00	0.00	0.00	0.00	0.00
1971	12	0	0	30.63	0.00	0.00	0.00	0.00	0.00	0.00
1972	1	0	0	32.25	0.00	0.00	0.00	0.00	0.00	0.00
1972	2	0	0	33.37	0.00	0.00	0.02	0.06	0.02	0.06
1972	3	0	0	86.09	0.00	0.00	0.02	0.02	0.02	0.02
1972	4	0	0	42.62	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	31.38	0.00	0.00	0.67	2.14	0.67	2.14
1972	7	0	0	27.37	0.00	0.00	0.00	0.00	0.00	0.00
1972	8	8	0	38.02	0.00	0.00	0.04	0.11	0.04	0.11
1972	9	30	11	32.54	9.85	30.26	0.05	0.15	9.90	30.41

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	79.88	18.40	23.04	0.00	0.00	18.40	23.04
1972	11	30	5	27.88	4.44	15.94	0.64	2.30	5.09	18.24
1972	12	0	0	24.69	0.00	0.00	0.03	0.12	0.03	0.12
1973	1	0	0	13.49	0.00	0.00	0.08	0.61	0.08	0.61
1973	2	0	0	9.49	0.00	0.00	0.00	0.00	0.00	0.00
1973	3	0	0	57.15	0.00	0.00	0.19	0.33	0.19	0.33
1973	4	0	0	93.31	0.00	0.00	0.00	0.00	0.00	0.00
1973	5	0	0	116.12	0.00	0.00	0.00	0.00	0.00	0.00
1973	6	0	0	27.51	0.00	0.00	0.00	0.00	0.00	0.00
1973	7	0	0	1.87	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	91.90	0.00	0.00	0.00	0.00	0.00	0.00
1973	12	0	0	21.47	0.00	0.00	0.00	0.00	0.00	0.00
1974	1	0	0	45.92	0.00	0.00	0.05	0.11	0.05	0.11
1974	2	0	0	76.02	0.00	0.00	0.00	0.00	0.00	0.00
1974	3	17	10	125.66	9.23	7.35	0.00	0.00	9.23	7.35
1974	4	30	6	113.20	9.41	8.31	0.02	0.02	9.43	8.33
1974	5	31	11	125.27	34.08	27.20	3.26	2.60	37.33	29.80
1974	6	30	0	10.29	0.00	0.00	0.92	8.91	0.92	8.91
1974	7	5	0	1.57	0.00	0.00	0.50	32.08	0.50	32.08
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	25.55	0.00	0.00	0.00	0.00	0.00	0.00
1974	11	0	0	63.90	0.00	0.00	0.00	0.00	0.00	0.00
1974	12	0	0	31.62	0.00	0.00	0.00	0.00	0.00	0.00
1975	1	0	0	75.33	0.00	0.00	0.00	0.00	0.00	0.00
1975	2	0	0	67.51	0.00	0.00	0.01	0.01	0.01	0.01
1975	3	5	4	97.21	1.65	1.70	0.00	0.00	1.65	1.70
1975	4	30	12	118.59	10.50	8.86	0.03	0.02	10.53	8.88
1975	5	31	1	44.10	1.26	2.86	0.05	0.12	1.31	2.98
1975	6	24	0	4.73	0.00	0.00	0.00	0.00	0.00	0.00
1975	7	31	0	2.61	0.00	0.00	0.00	0.00	0.00	0.00
1975	8	31	4	8.64	3.16	36.52	0.00	0.02	3.16	36.54
1975	9	30	0	0.48	0.00	0.00	0.02	3.89	0.02	3.89

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	31	0	3.44	0.00	0.00	0.00	0.00	0.00	0.00
1975	11	11	2	54.31	1.52	2.81	0.32	0.60	1.85	3.40
1975	12	0	0	54.81	0.00	0.00	0.00	0.00	0.00	0.00
1976	1	0	0	60.39	0.00	0.00	0.00	0.00	0.00	0.00
1976	2	0	0	63.49	0.00	0.00	0.01	0.01	0.01	0.01
1976	3	7	4	71.43	4.12	5.76	0.00	0.00	4.12	5.77
1976	4	23	8	113.54	4.04	3.56	0.00	0.00	4.04	3.56
1976	5	18	0	10.19	0.00	0.00	0.00	0.00	0.00	0.00
1976	6	0	0	16.76	0.00	0.00	0.00	0.00	0.00	0.00
1976	7	0	0	18.80	0.00	0.00	0.02	0.12	0.02	0.12
1976	8	0	0	2.59	0.00	0.00	0.00	0.00	0.00	0.00
1976	9	0	0	2.36	0.00	0.00	0.08	3.31	0.08	3.31

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	66.92	0.00	0.00	0.00	0.00	0.00	0.00
1976	11	0	0	47.31	0.00	0.00	0.00	0.00	0.00	0.00
1976	12	0	0	34.12	0.00	0.00	0.03	0.09	0.03	0.09
1977	1	0	0	1.55	0.00	0.00	0.00	0.00	0.00	0.00
1977	2	0	0	52.68	0.00	0.00	0.00	0.00	0.00	0.00
1977	3	0	0	105.92	0.00	0.00	0.00	0.00	0.00	0.00
1977	4	0	0	134.19	0.00	0.00	0.00	0.00	0.00	0.00
1977	5	0	0	42.38	0.00	0.00	0.11	0.26	0.11	0.26
1977	6	12	5	61.90	18.93	30.57	0.06	0.10	18.99	30.68
1977	7	31	3	20.41	4.75	23.28	0.00	0.00	4.75	23.28
1977	8	31	2	7.65	0.74	9.64	0.00	0.00	0.74	9.64
1977	9	30	0	0.12	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1977	10	31	14	70.19	20.33	28.96	0.00	0.00	20.33	28.96
1977	11	30	1	25.02	0.00	0.02	1.18	4.71	1.18	4.73
1977	12	0	0	19.44	0.00	0.00	0.00	0.00	0.00	0.00
1978	1	0	0	8.36	0.00	0.00	0.00	0.00	0.00	0.00
1978	2	0	0	26.51	0.00	0.00	0.00	0.00	0.00	0.00
1978	3	0	0	48.82	0.00	0.00	0.00	0.00	0.00	0.00
1978	4	0	0	108.87	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	20.70	0.00	0.00	0.00	0.00	0.00	0.00
1978	7	0	0	1.09	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	8.71	0.00	0.00	0.00	0.00	0.00	0.00
1978	11	0	0	24.47	0.00	0.00	0.00	0.00	0.00	0.00
1978	12	0	0	34.85	0.00	0.00	0.05	0.13	0.05	0.13
1979	1	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1979	2	0	0	39.95	0.00	0.00	0.00	0.00	0.00	0.00
1979	3	0	0	73.76	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	0.28	0.00	0.00	0.00	0.00	0.00	0.00
1979	6	0	0	151.49	0.00	0.00	2.00	1.32	2.00	1.32
1979	7	0	0	21.87	0.00	0.00	0.00	0.00	0.00	0.00
1979	8	22	0	7.46	0.00	0.00	0.03	0.45	0.03	0.45
1979	9	6	0	0.32	0.00	0.00	0.02	5.91	0.02	5.91

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	38.30	0.00	0.00	0.00	0.00	0.00	0.00
1980	1	0	0	40.22	0.00	0.00	0.07	0.18	0.07	0.18
1980	2	0	0	11.47	0.00	0.00	0.02	0.18	0.02	0.18
1980	3	0	0	64.17	0.00	0.00	0.01	0.01	0.01	0.01
1980	4	0	0	13.29	0.00	0.00	0.11	0.80	0.11	0.80
1980	5	0	0	96.82	0.00	0.00	0.00	0.00	0.00	0.00
1980	6	0	0	129.40	0.00	0.00	0.88	0.68	0.88	0.68
1980	7	1	0	14.51	0.00	0.00	0.00	0.00	0.00	0.00
1980	8	31	0	7.13	0.00	0.00	0.00	0.00	0.00	0.00
1980	9	30	0	2.74	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1980	10	31	19	77.12	18.93	24.55	0.00	0.00	18.93	24.55
1980	11	30	5	29.51	2.75	9.32	0.77	2.61	3.52	11.93
1980	12	0	0	29.93	0.00	0.00	0.00	0.00	0.00	0.00
1981	1	0	0	65.29	0.00	0.00	0.00	0.00	0.00	0.00
1981	2	0	0	28.70	0.00	0.00	0.15	0.51	0.15	0.51
1981	3	0	0	77.72	0.00	0.00	0.03	0.04	0.03	0.04
1981	4	20	14	155.74	5.41	3.48	0.01	0.00	5.42	3.48
1981	5	31	20	174.80	49.59	28.37	3.18	1.82	52.77	30.19
1981	6	30	11	87.16	28.78	33.02	4.73	5.43	33.50	38.44
1981	7	31	17	71.25	46.42	65.15	0.00	0.00	46.42	65.15
1981	8	31	0	2.26	0.00	0.00	0.00	0.00	0.00	0.00
1981	9	30	0	1.97	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	29	102.36	40.70	39.76	0.00	0.00	40.70	39.76
1981	11	30	13	51.58	22.78	44.16	0.90	1.75	23.68	45.90
1981	12	0	0	59.56	0.00	0.00	0.00	0.00	0.00	0.00
1982	1	0	0	58.94	0.00	0.00	0.10	0.17	0.10	0.17
1982	2	0	0	19.90	0.00	0.00	0.00	0.00	0.00	0.00
1982	3	0	0	29.65	0.00	0.00	0.00	0.00	0.00	0.00
1982	4	0	0	11.28	0.00	0.00	0.00	0.00	0.00	0.00
1982	5	0	0	107.33	0.00	0.00	0.00	0.00	0.00	0.00
1982	6	0	0	19.54	0.00	0.00	0.09	0.45	0.09	0.45
1982	7	0	0	4.85	0.00	0.00	0.00	0.00	0.00	0.00
1982	8	0	0	2.24	0.00	0.00	0.00	0.00	0.00	0.00
1982	9	0	0	5.12	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
1982	10	0	0	13.18	0.00	0.00	0.00	0.00	0.00	0.00
1982	11	0	0	44.73	0.00	0.00	0.00	0.00	0.00	0.00
1982	12	0	0	40.58	0.00	0.00	0.03	0.06	0.03	0.06
1983	1	0	0	22.87	0.00	0.00	0.01	0.05	0.01	0.05
1983	2	0	0	0.28	0.00	0.00	0.00	0.00	0.00	0.00
1983	3	0	0	0.07	0.00	0.00	0.00	0.00	0.00	0.00
1983	4	0	0	28.79	0.00	0.00	0.00	0.00	0.00	0.00
1983	5	0	0	207.16	0.00	0.00	0.02	0.01	0.02	0.01
1983	6	0	0	28.59	0.00	0.00	0.00	0.00	0.00	0.00
1983	7	0	0	32.96	0.00	0.00	0.00	0.00	0.00	0.00
1983	8	0	0	5.48	0.00	0.00	0.00	0.00	0.00	0.00
1983	9	0	0	6.02	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1983	10	0	0	3.27	0.00	0.00	0.00	0.00	0.00	0.00
1983	11	0	0	19.80	0.00	0.00	0.00	0.00	0.00	0.00
1983	12	0	0	18.20	0.00	0.00	0.00	0.00	0.00	0.00
1984	1	0	0	30.35	0.00	0.00	0.00	0.00	0.00	0.00
1984	2	0	0	33.79	0.00	0.00	0.00	0.00	0.00	0.00
1984	3	0	0	15.58	0.00	0.00	0.00	0.00	0.00	0.00
1984	4	0	0	48.95	0.00	0.00	0.00	0.00	0.00	0.00
1984	5	0	0	119.73	0.00	0.00	0.08	0.06	0.08	0.06
1984	6	0	0	51.31	0.00	0.00	0.11	0.22	0.11	0.22
1984	7	0	0	1.30	0.00	0.00	0.00	0.00	0.00	0.00
1984	8	0	0	16.33	0.00	0.00	0.00	0.00	0.00	0.00
1984	9	0	0	14.28	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
1984	10	0	0	51.85	0.00	0.00	0.00	0.00	0.00	0.00
1984	11	0	0	57.27	0.00	0.00	0.00	0.00	0.00	0.00
1984	12	0	0	53.17	0.00	0.00	0.00	0.00	0.00	0.00
1985	1	0	0	59.26	0.00	0.00	0.08	0.14	0.08	0.14
1985	2	2	2	88.51	1.96	2.21	0.00	0.00	1.96	2.21
1985	3	31	16	84.92	18.64	21.95	0.06	0.07	18.70	22.02
1985	4	16	0	29.42	0.00	0.00	0.00	0.00	0.00	0.00
1985	5	20	5	111.30	1.76	1.58	0.12	0.10	1.87	1.68
1985	6	30	11	112.22	51.90	46.25	5.70	5.08	57.59	51.32
1985	7	31	2	5.61	1.63	29.11	0.00	0.00	1.63	29.11
1985	8	31	0	2.06	0.00	0.00	0.00	0.00	0.00	0.00
1985	9	30	0	0.30	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1985	10	31	0	8.10	0.00	0.00	0.00	0.00	0.00	0.00
1985	11	30	3	34.56	0.81	2.33	0.20	0.58	1.01	2.91
1985	12	0	0	34.61	0.00	0.00	0.04	0.11	0.04	0.11
1986	1	0	0	12.84	0.00	0.00	0.00	0.00	0.00	0.00
1986	2	0	0	47.43	0.00	0.00	0.12	0.25	0.12	0.25
1986	3	0	0	18.20	0.00	0.00	0.05	0.30	0.05	0.30
1986	4	0	0	137.87	0.00	0.00	0.00	0.00	0.00	0.00
1986	5	0	0	129.88	0.00	0.00	0.30	0.23	0.30	0.23
1986	6	3	0	18.78	0.00	0.00	0.00	0.00	0.00	0.00
1986	7	0	0	3.16	0.00	0.00	0.00	0.00	0.00	0.00
1986	8	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1986	9	0	0	6.05	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1986	10	0	0	31.06	0.00	0.00	0.00	0.00	0.00	0.00
1986	11	0	0	21.83	0.00	0.00	0.00	0.00	0.00	0.00
1986	12	0	0	34.79	0.00	0.00	0.00	0.00	0.00	0.00
1987	1	0	0	11.58	0.00	0.00	0.00	0.00	0.00	0.00
1987	2	0	0	21.10	0.00	0.00	0.00	0.00	0.00	0.00
1987	3	0	0	19.39	0.00	0.00	0.00	0.00	0.00	0.00
1987	4	0	0	107.46	0.00	0.00	0.02	0.02	0.02	0.02
1987	5	0	0	111.21	0.00	0.00	0.07	0.06	0.07	0.06
1987	6	0	0	110.11	0.00	0.00	0.13	0.12	0.13	0.12
1987	7	0	0	13.38	0.00	0.00	0.00	0.00	0.00	0.00
1987	8	17	17	56.53	32.93	58.26	0.03	0.06	32.96	58.32
1987	9	30	8	13.98	5.17	36.99	0.00	0.00	5.17	36.99

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	17.60	0.00	0.00	0.00	0.00	0.00	0.00
1987	11	4	0	2.61	0.00	0.00	0.35	13.23	0.35	13.23
1987	12	0	0	42.38	0.00	0.00	0.00	0.00	0.00	0.00
1988	1	0	0	9.39	0.00	0.00	0.00	0.00	0.00	0.00
1988	2	0	0	11.10	0.00	0.00	0.00	0.00	0.00	0.00
1988	3	0	0	24.41	0.00	0.00	0.05	0.20	0.05	0.20
1988	4	0	0	135.77	0.00	0.00	0.00	0.00	0.00	0.00
1988	5	0	0	108.01	0.00	0.00	0.00	0.00	0.00	0.00
1988	6	0	0	56.54	0.00	0.00	0.25	0.44	0.25	0.44
1988	7	0	0	6.79	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	1	1	45.45	0.87	1.92	0.00	0.00	0.87	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
1988	10	31	28	120.77	37.72	31.23	0.05	0.04	37.76	31.27
1988	11	25	0	38.67	0.00	0.00	0.95	2.44	0.95	2.44
1988	12	0	0	52.17	0.00	0.00	0.02	0.04	0.02	0.04
1989	1	0	0	53.38	0.00	0.00	0.13	0.25	0.13	0.25
1989	2	0	0	85.16	0.00	0.00	0.00	0.00	0.00	0.00
1989	3	2	0	52.45	0.00	0.00	0.00	0.00	0.00	0.00
1989	4	0	0	44.29	0.00	0.00	0.01	0.01	0.01	0.01
1989	5	0	0	128.87	0.00	0.00	0.59	0.46	0.59	0.46
1989	6	23	7	130.14	21.66	16.64	2.47	1.90	24.13	18.54
1989	7	31	10	34.97	17.68	50.56	0.00	0.00	17.68	50.56
1989	8	31	2	5.26	0.96	18.32	0.00	0.00	0.96	18.32
1989	9	30	0	0.86	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1989	10	31	1	14.30	0.13	0.88	0.00	0.00	0.13	0.88
1989	11	30	25	94.34	19.97	21.16	0.75	0.79	20.71	21.96
1989	12	0	0	27.41	0.00	0.00	0.00	0.00	0.00	0.00
1990	1	0	0	57.68	0.00	0.00	0.20	0.35	0.20	0.35
1990	2	0	0	12.17	0.00	0.00	0.05	0.41	0.05	0.41
1990	3	0	0	68.54	0.00	0.00	0.00	0.00	0.00	0.00
1990	4	0	0	90.93	0.00	0.00	0.00	0.00	0.00	0.00
1990	5	0	0	46.47	0.00	0.00	0.03	0.07	0.03	0.07
1990	6	5	0	56.02	0.00	0.00	1.41	2.51	1.41	2.51
1990	7	17	0	5.19	0.00	0.00	0.00	0.00	0.00	0.00
1990	8	15	0	2.53	0.00	0.00	0.00	0.00	0.00	0.00
1990	9	20	6	19.58	2.15	11.00	0.00	0.00	2.15	11.00

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	11	0	14.47	0.00	0.00	0.00	0.00	0.00	0.00
1990	11	0	0	76.92	0.00	0.00	0.00	0.00	0.00	0.00
1990	12	0	0	47.34	0.00	0.00	0.00	0.00	0.00	0.00
1991	1	0	0	4.56	0.00	0.00	0.00	0.10	0.00	0.10
1991	2	0	0	26.59	0.00	0.00	0.00	0.00	0.00	0.00
1991	3	0	0	54.89	0.00	0.00	0.00	0.00	0.00	0.00
1991	4	0	0	3.86	0.00	0.00	0.00	0.00	0.00	0.00
1991	5	0	0	49.89	0.00	0.00	0.00	0.00	0.00	0.00
1991	6	0	0	15.52	0.00	0.00	0.00	0.00	0.00	0.00
1991	7	0	0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1991	8	0	0	8.16	0.00	0.00	0.00	0.00	0.00	0.00
1991	9	0	0	4.97	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	11.78	0.00	0.00	0.00	0.00	0.00	0.00
1991	11	0	0	42.91	0.00	0.00	0.00	0.00	0.00	0.00
1991	12	0	0	45.80	0.00	0.00	0.00	0.00	0.00	0.00
1992	1	0	0	20.66	0.00	0.00	0.06	0.30	0.06	0.30
1992	2	0	0	22.58	0.00	0.00	0.00	0.00	0.00	0.00
1992	3	0	0	31.63	0.00	0.00	0.00	0.00	0.00	0.00
1992	4	0	0	7.22	0.00	0.00	0.00	0.06	0.00	0.06
1992	5	0	0	202.35	0.00	0.00	0.48	0.24	0.48	0.24
1992	6	0	0	20.83	0.00	0.00	0.07	0.35	0.07	0.35
1992	7	0	0	17.63	0.00	0.00	0.00	0.00	0.00	0.00
1992	8	0	0	6.26	0.00	0.00	0.00	0.00	0.00	0.00
1992	9	0	0	0.90	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1992	10	0	0	50.89	0.00	0.00	0.00	0.00	0.00	0.00
1992	11	0	0	19.89	0.00	0.00	0.00	0.00	0.00	0.00
1992	12	0	0	42.39	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	7.55	0.00	0.00	0.00	0.00	0.00	0.00
1993	3	0	0	19.80	0.00	0.00	0.00	0.00	0.00	0.00
1993	4	0	0	55.93	0.00	0.00	0.00	0.00	0.00	0.00
1993	5	0	0	181.53	0.00	0.00	0.01	0.00	0.01	0.00
1993	6	0	0	39.05	0.00	0.00	0.00	0.00	0.00	0.00
1993	7	0	0	43.78	0.00	0.00	0.00	0.00	0.00	0.00
1993	8	5	0	40.45	0.00	0.00	0.00	0.00	0.00	0.00
1993	9	6	0	2.78	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	6	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	35.91	0.00	0.00	0.00	0.00	0.00	0.00
1994	1	0	0	7.12	0.00	0.00	0.00	0.00	0.00	0.00
1994	2	0	0	8.80	0.00	0.00	0.00	0.00	0.00	0.00
1994	3	0	0	43.79	0.00	0.00	0.00	0.00	0.00	0.00
1994	4	0	0	49.32	0.00	0.00	0.13	0.26	0.13	0.26
1994	5	0	0	97.63	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	0	0	16.79	0.00	0.00	0.00	0.00	0.00	0.00
1994	8	0	0	0.17	0.00	0.00	0.00	0.00	0.00	0.00
1994	9	0	0	0.55	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1994	10	0	0	7.61	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	22.01	0.00	0.00	0.00	0.00	0.00	0.00
1995	1	0	0	3.60	0.00	0.00	0.00	0.00	0.00	0.00
1995	2	0	0	8.06	0.00	0.00	0.00	0.00	0.00	0.00
1995	3	0	0	30.62	0.00	0.00	0.00	0.00	0.00	0.00
1995	4	0	0	73.71	0.00	0.00	0.00	0.00	0.00	0.00
1995	5	0	0	92.30	0.00	0.00	0.00	0.00	0.00	0.00
1995	6	0	0	23.11	0.00	0.00	0.29	1.27	0.29	1.27
1995	7	0	0	12.06	0.00	0.00	0.00	0.00	0.00	0.00
1995	8	0	0	1.94	0.00	0.00	0.00	0.00	0.00	0.00
1995	9	0	0	10.28	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
1995	10	0	0	0.84	0.00	0.00	0.00	0.00	0.00	0.00
1995	11	0	0	45.23	0.00	0.00	0.00	0.00	0.00	0.00
1995	12	0	0	28.66	0.00	0.00	0.00	0.00	0.00	0.00
1996	1	0	0	12.90	0.00	0.00	0.07	0.51	0.07	0.51
1996	2	0	0	73.63	0.00	0.00	0.08	0.11	0.08	0.11
1996	3	0	0	33.93	0.00	0.00	0.15	0.45	0.15	0.45
1996	4	0	0	60.16	0.00	0.00	0.00	0.00	0.00	0.00
1996	5	0	0	34.55	0.00	0.00	0.00	0.00	0.00	0.00
1996	6	0	0	2.96	0.00	0.00	0.00	0.00	0.00	0.00
1996	7	0	0	55.49	0.00	0.00	0.00	0.00	0.00	0.00
1996	8	0	0	13.29	0.00	0.00	0.03	0.22	0.03	0.22
1996	9	0	0	28.68	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1996	10	0	0	16.05	0.00	0.00	0.00	0.00	0.00	0.00
1996	11	0	0	66.39	0.00	0.00	0.00	0.00	0.00	0.00
1996	12	0	0	57.32	0.00	0.00	0.00	0.00	0.00	0.00
1997	1	0	0	41.55	0.00	0.00	0.00	0.00	0.00	0.00
1997	2	0	0	44.46	0.00	0.00	0.65	1.47	0.65	1.47
1997	3	0	0	58.86	0.00	0.00	0.35	0.59	0.35	0.59
1997	4	0	0	30.34	0.00	0.00	0.00	0.00	0.00	0.00
1997	5	0	0	19.28	0.00	0.00	0.09	0.46	0.09	0.46
1997	6	0	0	31.87	0.00	0.00	0.65	2.05	0.65	2.05
1997	7	0	0	12.29	0.00	0.00	0.00	0.00	0.00	0.00
1997	8	0	0	1.95	0.00	0.00	0.00	0.00	0.00	0.00
1997	9	0	0	6.21	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
1997	10	0	0	47.65	0.00	0.00	0.00	0.00	0.00	0.00
1997	11	0	0	16.17	0.00	0.00	0.00	0.00	0.00	0.00
1997	12	0	0	28.12	0.00	0.00	0.00	0.00	0.00	0.00
1998	1	0	0	2.87	0.00	0.00	0.00	0.00	0.00	0.00
1998	2	0	0	2.06	0.00	0.00	0.00	0.00	0.00	0.00
1998	3	0	0	4.67	0.00	0.00	0.00	0.00	0.00	0.00
1998	4	0	0	92.79	0.00	0.00	0.00	0.00	0.00	0.00
1998	5	0	0	132.78	0.00	0.00	0.15	0.12	0.15	0.12
1998	6	0	0	152.97	0.00	0.00	1.72	1.12	1.72	1.12
1998	7	0	0	23.81	0.00	0.00	0.00	0.00	0.00	0.00
1998	8	0	0	8.37	0.00	0.00	0.01	0.15	0.01	0.15
1998	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
1998	10	0	0	23.02	0.00	0.00	0.00	0.00	0.00	0.00
1998	11	0	0	18.34	0.00	0.00	0.00	0.00	0.00	0.00
1998	12	0	0	42.10	0.00	0.00	0.00	0.00	0.00	0.00
1999	1	0	0	11.27	0.00	0.00	0.29	2.56	0.29	2.56
1999	2	0	0	52.37	0.00	0.00	0.51	0.97	0.51	0.97
1999	3	3	2	121.87	0.56	0.46	0.00	0.00	0.56	0.46
1999	4	30	14	131.98	13.12	9.94	0.03	0.02	13.14	9.96
1999	5	31	7	90.32	4.29	4.75	2.66	2.95	6.95	7.69
1999	6	24	0	8.25	0.00	0.00	2.16	26.15	2.16	26.15
1999	7	0	0	8.79	0.00	0.00	0.08	0.96	0.08	0.96
1999	8	0	0	13.38	0.00	0.00	0.12	0.89	0.12	0.89
1999	9	0	0	2.80	0.00	0.00	0.59	21.09	0.59	21.09

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1999	10	0	0	0.43	0.00	0.00	0.00	0.00	0.00	0.00
1999	11	0	0	37.53	0.00	0.00	0.00	0.00	0.00	0.00
1999	12	0	0	34.62	0.00	0.00	0.00	0.00	0.00	0.00
2000	1	0	0	59.97	0.00	0.00	0.01	0.02	0.01	0.02
2000	2	0	0	64.56	0.00	0.00	0.13	0.20	0.13	0.20
2000	3	0	0	71.00	0.00	0.00	0.00	0.00	0.00	0.00
2000	4	0	0	72.31	0.00	0.00	0.00	0.00	0.00	0.00
2000	5	10	9	184.88	19.04	10.30	0.07	0.04	19.11	10.34
2000	6	30	22	185.67	100.93	54.36	4.51	2.43	105.44	56.79
2000	7	31	0	3.02	0.00	0.00	0.00	0.00	0.00	0.00
2000	8	31	16	51.01	37.45	73.42	0.00	0.00	37.45	73.42
2000	9	30	5	5.22	2.30	44.01	0.00	0.00	2.30	44.01

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	13	43.90	15.06	34.31	0.00	0.00	15.06	34.31
2000	11	30	29	106.63	51.04	47.86	0.11	0.10	51.14	47.96
2000	12	0	0	52.98	0.00	0.00	0.00	0.00	0.00	0.00
2001	1	0	0	57.68	0.00	0.00	0.00	0.00	0.00	0.00
2001	2	0	0	95.19	0.00	0.00	0.00	0.00	0.00	0.00
2001	3	21	6	59.88	6.76	11.28	0.40	0.67	7.16	11.95
2001	4	25	11	122.19	6.87	5.62	0.00	0.00	6.87	5.62
2001	5	31	13	153.93	48.73	31.66	1.30	0.85	50.04	32.51
2001	6	30	8	58.97	9.48	16.08	7.97	13.52	17.45	29.59
2001	7	31	3	13.26	3.62	27.33	0.00	0.00	3.62	27.33
2001	8	31	11	28.41	13.89	48.90	0.00	0.00	13.89	48.90
2001	9	18	2	6.46	2.32	35.84	0.00	0.00	2.32	35.84

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	10.09	0.00	0.00	0.00	0.00	0.00	0.00
2001	11	0	0	41.37	0.00	0.00	0.00	0.00	0.00	0.00
2001	12	0	0	42.94	0.00	0.00	0.06	0.14	0.06	0.14
2002	1	0	0	28.09	0.00	0.00	0.04	0.15	0.04	0.15
2002	2	0	0	30.31	0.00	0.00	0.04	0.12	0.04	0.12
2002	3	0	0	78.03	0.00	0.00	0.00	0.00	0.00	0.00
2002	4	0	0	104.55	0.00	0.00	0.00	0.00	0.00	0.00
2002	5	23	8	157.57	11.79	7.48	0.86	0.54	12.65	8.03
2002	6	30	10	73.17	30.18	41.24	4.93	6.74	35.11	47.98
2002	7	2	0	12.84	0.00	0.00	0.00	0.00	0.00	0.00
2002	8	0	0	15.07	0.00	0.00	0.16	1.05	0.16	1.05
2002	9	0	0	10.71	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	11.86	0.00	0.00	0.00	0.00	0.00	0.00
2002	11	0	0	30.81	0.00	0.00	0.00	0.00	0.00	0.00
2002	12	0	0	24.69	0.00	0.00	0.00	0.00	0.00	0.00
2003	1	0	0	46.47	0.00	0.00	0.00	0.00	0.00	0.00
2003	2	0	0	56.76	0.00	0.00	0.00	0.00	0.00	0.00
2003	3	0	0	34.96	0.00	0.00	0.00	0.00	0.00	0.00
2003	4	0	0	68.53	0.00	0.00	0.00	0.00	0.00	0.00
2003	5	0	0	55.44	0.00	0.00	0.00	0.00	0.00	0.00
2003	6	0	0	15.95	0.00	0.00	0.00	0.01	0.00	0.01
2003	7	0	0	15.64	0.00	0.00	0.00	0.00	0.00	0.00
2003	8	0	0	0.01	0.00	0.00	0.00	0.00	0.00	0.00
2003	9	0	0	1.21	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
2003	10	0	0	41.08	0.00	0.00	0.00	0.00	0.00	0.00
2003	11	0	0	32.64	0.00	0.00	0.00	0.00	0.00	0.00
2003	12	0	0	28.79	0.00	0.00	0.00	0.00	0.00	0.00
2004	1	0	0	45.03	0.00	0.00	0.14	0.31	0.14	0.31
2004	2	0	0	17.66	0.00	0.00	0.12	0.67	0.12	0.67
2004	3	0	0	99.43	0.00	0.00	0.00	0.00	0.00	0.00
2004	4	0	0	96.76	0.00	0.00	0.00	0.00	0.00	0.00
2004	5	0	0	195.62	0.00	0.00	0.44	0.22	0.44	0.22
2004	6	30	8	55.08	20.50	37.21	0.48	0.86	20.97	38.08
2004	7	31	18	54.32	31.93	58.79	0.03	0.06	31.97	58.85
2004	8	31	0	0.11	0.00	0.00	0.10	91.02	0.10	91.02
2004	9	7	0	0.28	0.00	0.00	0.14	47.94	0.14	47.94

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

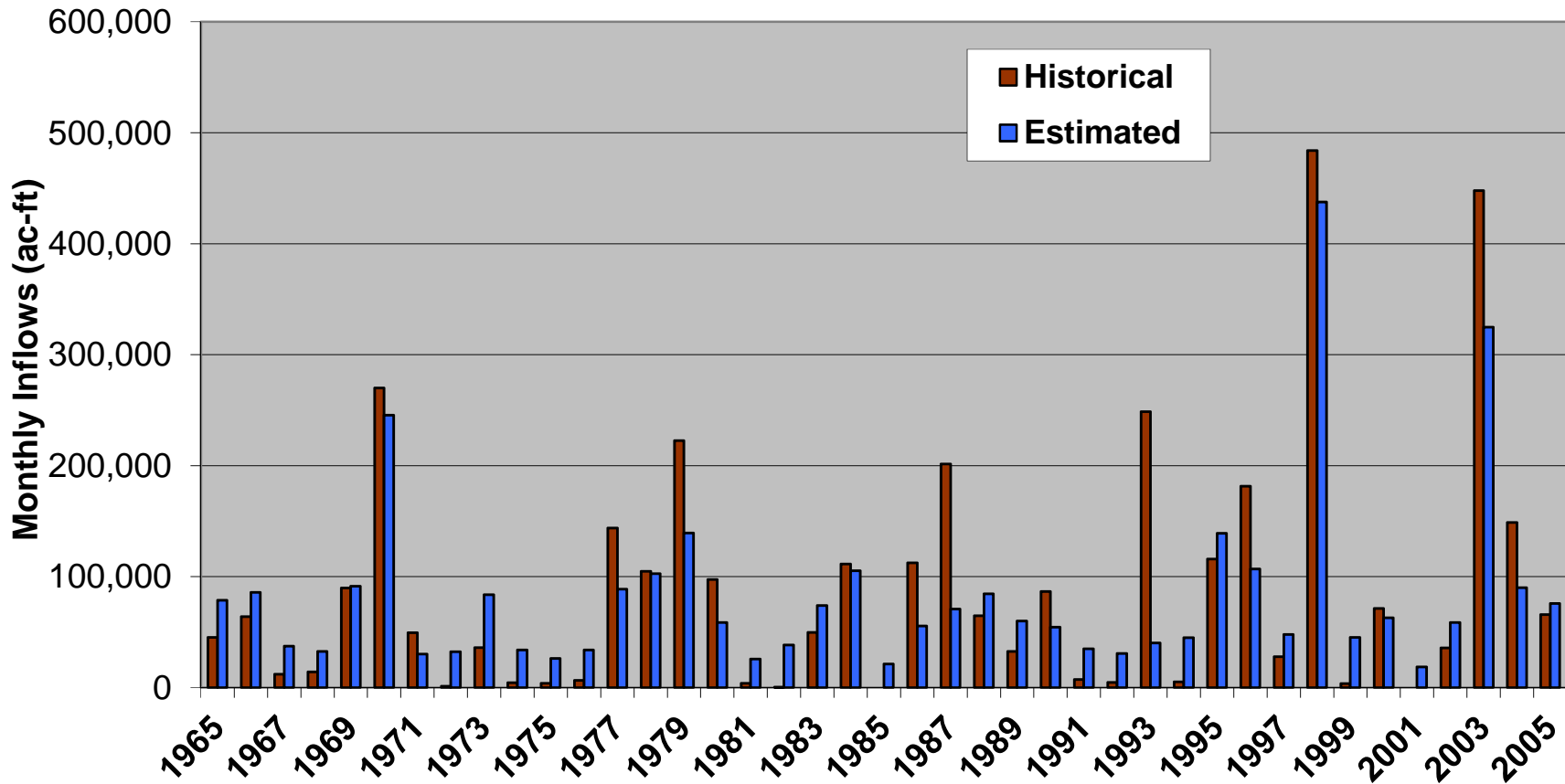
Run:

SFWMM v6.7.4 - December Mid-Month 2019 DPA Final LOK Stage 13.01

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	10	0	268.06	0.00	0.00	0.03	0.01	0.03	0.01
1967	154	45	753.75	92.77	12.31	14.41	1.91	107.18	14.22
1968	126	40	492.85	31.50	6.39	0.36	0.07	31.86	6.46
1969	0	0	315.16	0.00	0.00	0.11	0.04	0.11	0.04
1970	0	0	355.77	0.00	0.00	0.02	0.01	0.02	0.01
1971	205	57	732.88	84.52	11.53	6.13	0.84	90.65	12.37
1972	73	14	432.98	14.72	3.40	0.80	0.19	15.52	3.58
1973	61	23	452.30	22.85	5.05	0.94	0.21	23.79	5.26
1974	113	27	630.30	52.72	8.36	4.75	0.75	57.47	9.12
1975	182	21	540.31	16.57	3.07	0.11	0.02	16.68	3.09
1976	90	14	472.09	9.68	2.05	0.43	0.09	10.11	2.14
1977	104	10	575.15	24.41	4.24	0.20	0.04	24.62	4.28
1978	61	15	349.91	20.33	5.81	1.26	0.36	21.59	6.17
1979	28	0	478.31	0.00	0.00	2.15	0.45	2.15	0.45
1980	62	0	435.27	0.00	0.00	1.09	0.25	1.09	0.25
1981	234	86	801.46	151.88	18.95	8.86	1.11	160.74	20.06
1982	61	42	472.36	63.47	13.44	1.09	0.23	64.57	13.67
1983	0	0	430.71	0.00	0.00	0.06	0.01	0.06	0.01
1984	0	0	372.89	0.00	0.00	0.19	0.05	0.19	0.05
1985	191	36	655.89	75.89	11.57	5.96	0.91	81.84	12.48
1986	64	3	451.48	0.81	0.18	0.71	0.16	1.52	0.34
1987	47	25	552.43	38.10	6.90	0.26	0.05	38.36	6.94
1988	36	1	460.06	0.87	0.19	0.64	0.14	1.51	0.33
1989	173	47	747.01	78.03	10.45	4.21	0.56	82.24	11.01
1990	118	32	495.19	22.24	4.49	2.44	0.49	24.68	4.98
1991	11	0	307.17	0.00	0.00	0.00	0.00	0.00	0.00
1992	0	0	430.54	0.00	0.00	0.62	0.14	0.62	0.14
1993	11	0	504.22	0.00	0.00	0.01	0.00	0.01	0.00
1994	6	0	316.60	0.00	0.00	0.13	0.04	0.13	0.04
1995	0	0	295.80	0.00	0.00	0.29	0.10	0.29	0.10
1996	0	0	390.32	0.00	0.00	0.33	0.08	0.33	0.08
1997	0	0	386.57	0.00	0.00	1.74	0.45	1.74	0.45
1998	0	0	514.02	0.00	0.00	1.88	0.37	1.88	0.37
1999	88	23	524.50	17.97	3.43	6.44	1.23	24.40	4.65
2000	132	52	770.22	159.72	20.74	4.72	0.61	164.44	21.35
2001	248	96	799.47	157.77	19.73	9.78	1.22	167.55	20.96
2002	55	18	604.74	41.97	6.94	6.08	1.01	48.06	7.95
2003	0	0	362.33	0.00	0.00	0.00	0.00	0.00	0.00
2004	99	26	666.80	52.43	7.86	1.44	0.22	53.87	8.08
2005	0	0	377.70	0.00	0.00	0.28	0.07	0.28	0.07

December 15, 2019 Dynamic Position Analysis Historical and Estimated S-65E Monthly Flow for December from 1965 - 2005



December 15, 2019 Dynamic Position Analysis Historical and Estimated S-65E Monthly Flow for January from 1965 - 2005

