

Dynamic Position Analysis for April 1, 2021 (Lake Okeechobee Harmful Algal Bloom Deviation)

SFWMM Model Simulation of 41 years (1965-2005)

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**April 1, 2021 Modeling
Dynamic Position Analysis
Modeling Assumptions
(Lake Okeechobee Harmful Algal Bloom Deviation)**

- April 1, 2021 DPA is based on regular Position Analysis applying V6.7.4 (Tamiami Trail) 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 February 1st of each year and is an approximation of the Lake Okeechobee (LOK) Harmful Algal Bloom (HAB) Deviation
- Adaptive Protocols releases to the estuaries have been increased to approximate the LOK HAB deviation:
 - Caloosahatchee Estuary releases increased from 650 cfs to 1200 cfs
 - St. Lucie Estuary releases increased from 0 cfs to 300 cfs
- To help meet the intent of the deviation, releases to the Caloosahatchee Estuary were also modified when the LORS 2008 Part D falls in one of the Base Flow Boxes:
 - Mar. – June 1200 cfs
 - July – Aug. 0 cfs
 - Sep. – Feb. 450 cfs
- 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.
- STA surface area values are modified to reflect current flowways under operation. STA depths are maintained to a minimum of 6 inches using Lake Okeechobee releases
- 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

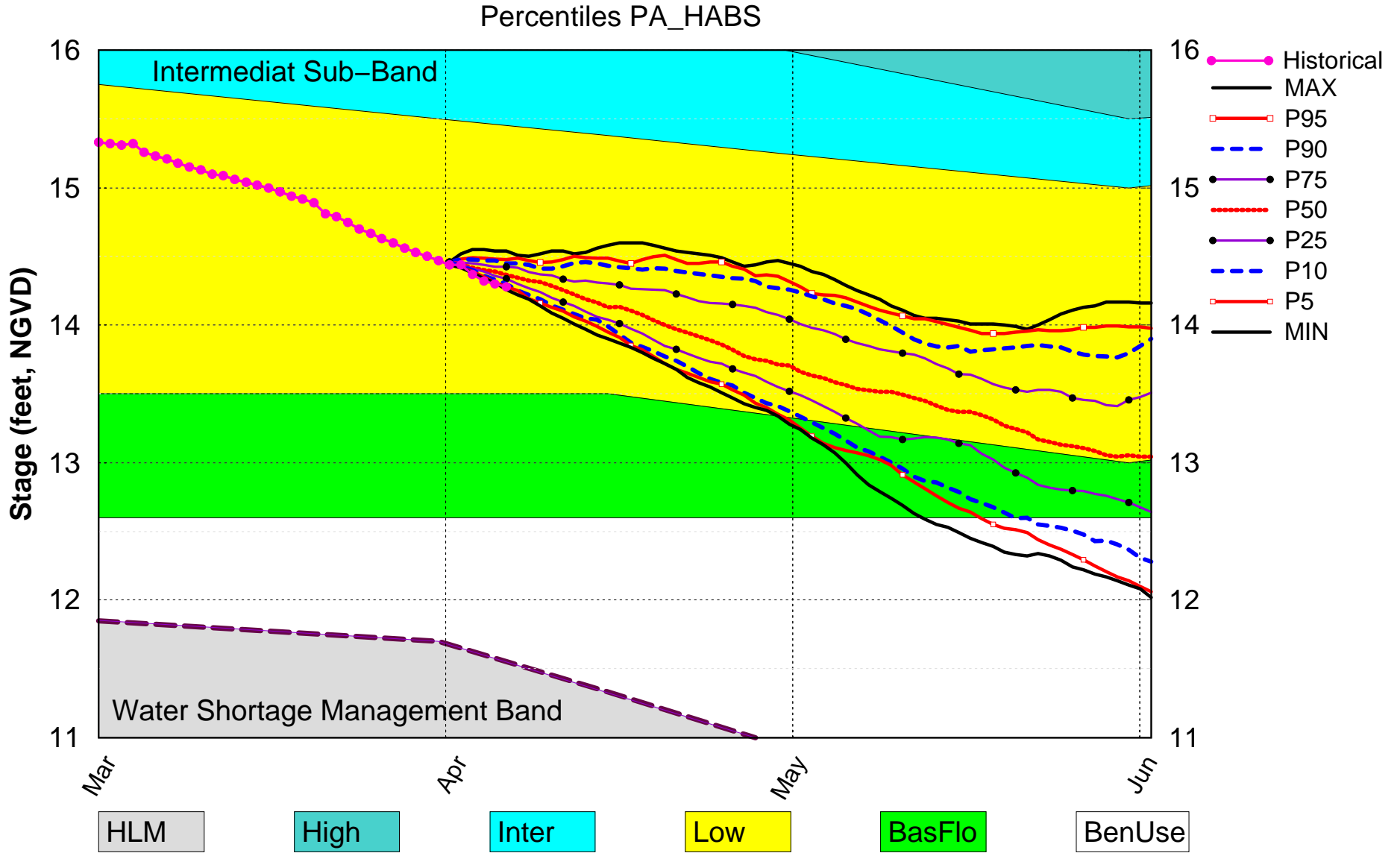
- La Niña is present. There is a ~60% chance of a transition from La Niña to ENSO-Neutral during the spring 2021 (April- June).
- ENSO (El Niño Southern Oscillation) years (El Niño, La Niña and ENSO Neutral) are selected by locating the current month as it falls in the middle of the 3-month average in 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).
- Back pumping of excess runoff from the EAA into Lake Okeechobee takes place only under flood control conditions (Interim Action Plan).
- Starting January 2020 to reflect recent operation practices the 30-day moving average salinity check at I-75 bridge for Adaptive Protocols - Lake Okeechobee Release to the Caloosahatchee Estuary has been disabled in the Water Management Model
- Operations for structures in the SDCS are more consistent with COP
- WCA-3A simulated using COP
- Information for the initial conditions can be viewed [here](#). Initial stages for specified canals are shown [here](#) and gages are shown [here](#)

[Back to Operational Planning Main Page](#)

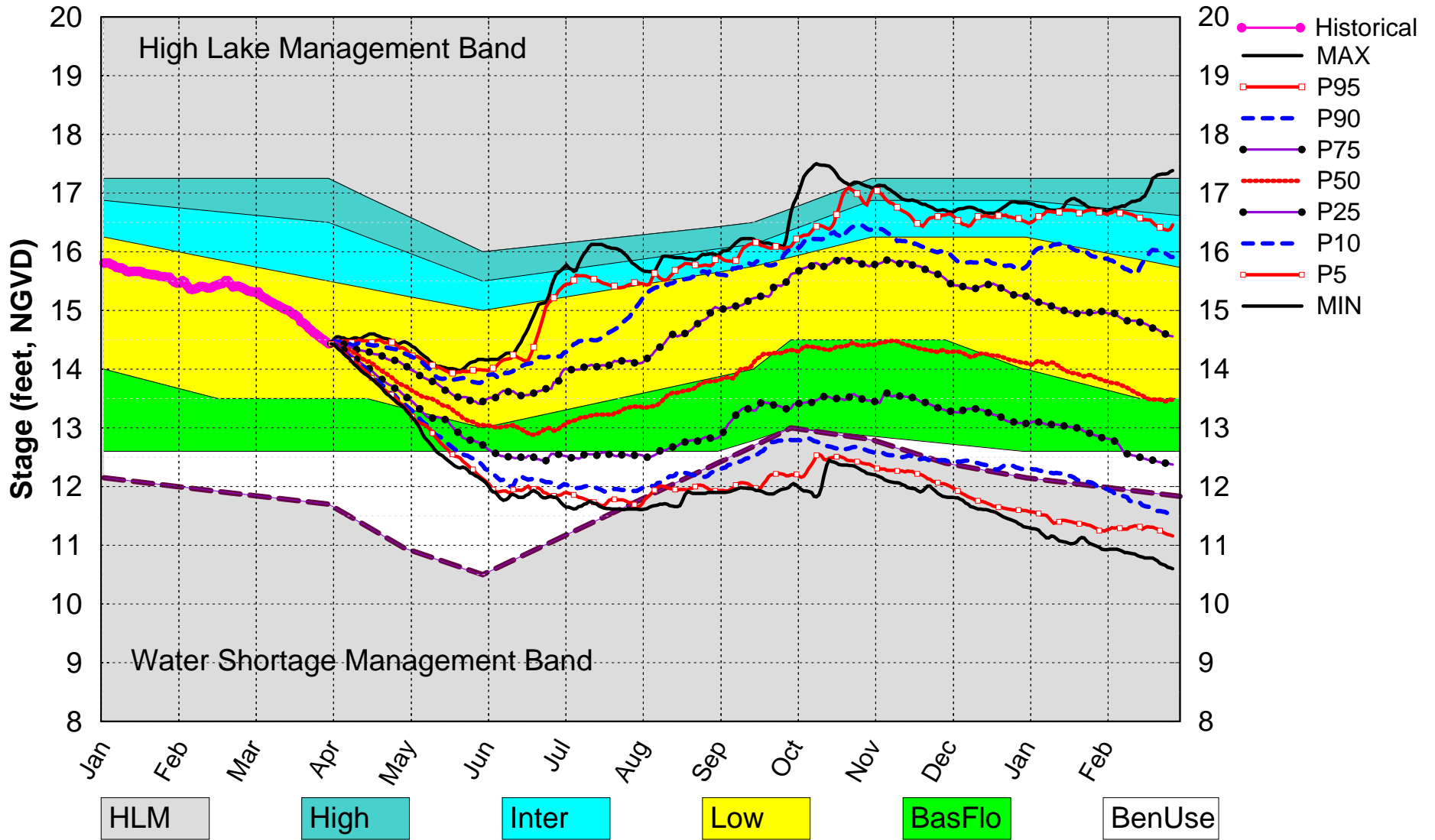
Lake Okeechobee SFWMM Apr 2021 Position Analysis



(See assumptions on the Position Analysis Results website)

Lake Okeechobee SFWMM Apr 2021 Position Analysis

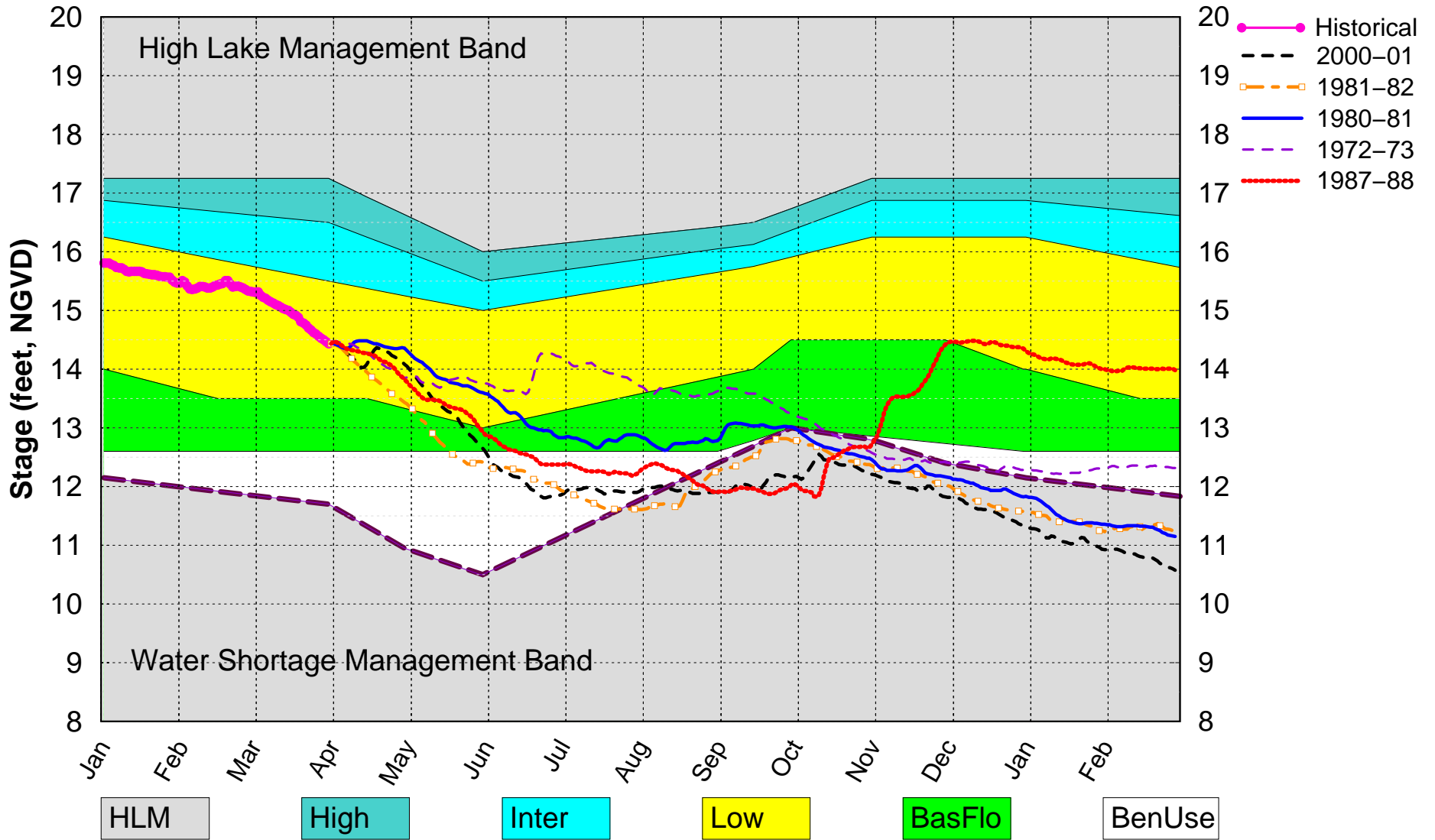
Percentiles PA_HABS



(See assumptions on the Position Analysis Results website)

Lake Okeechobee SFWMM Apr 2021 Position Analysis

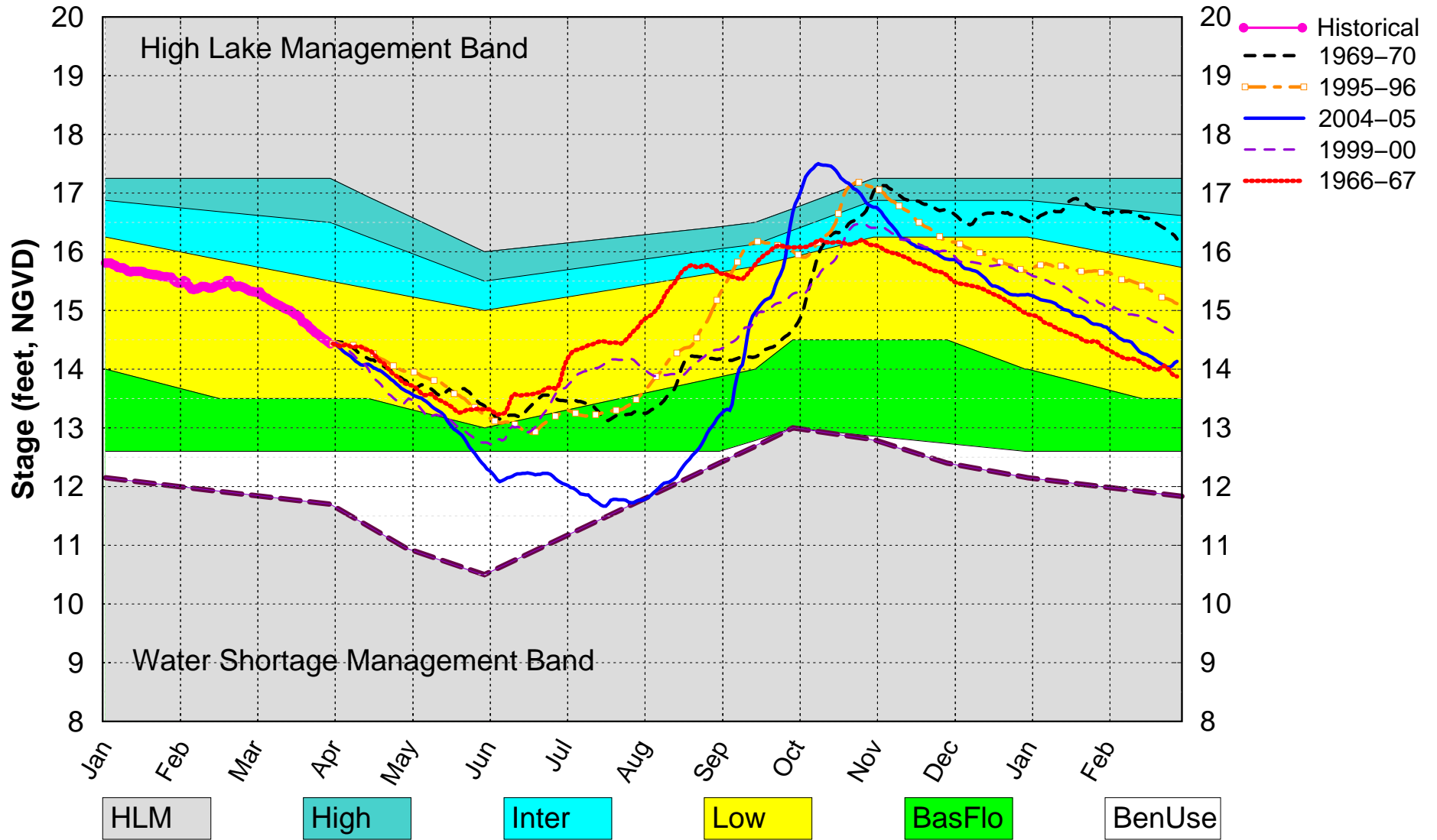
Dry Years Plot PA_HABS



(See assumptions on the Position Analysis Results website)

Lake Okeechobee SFWMM Apr 2021 Position Analysis

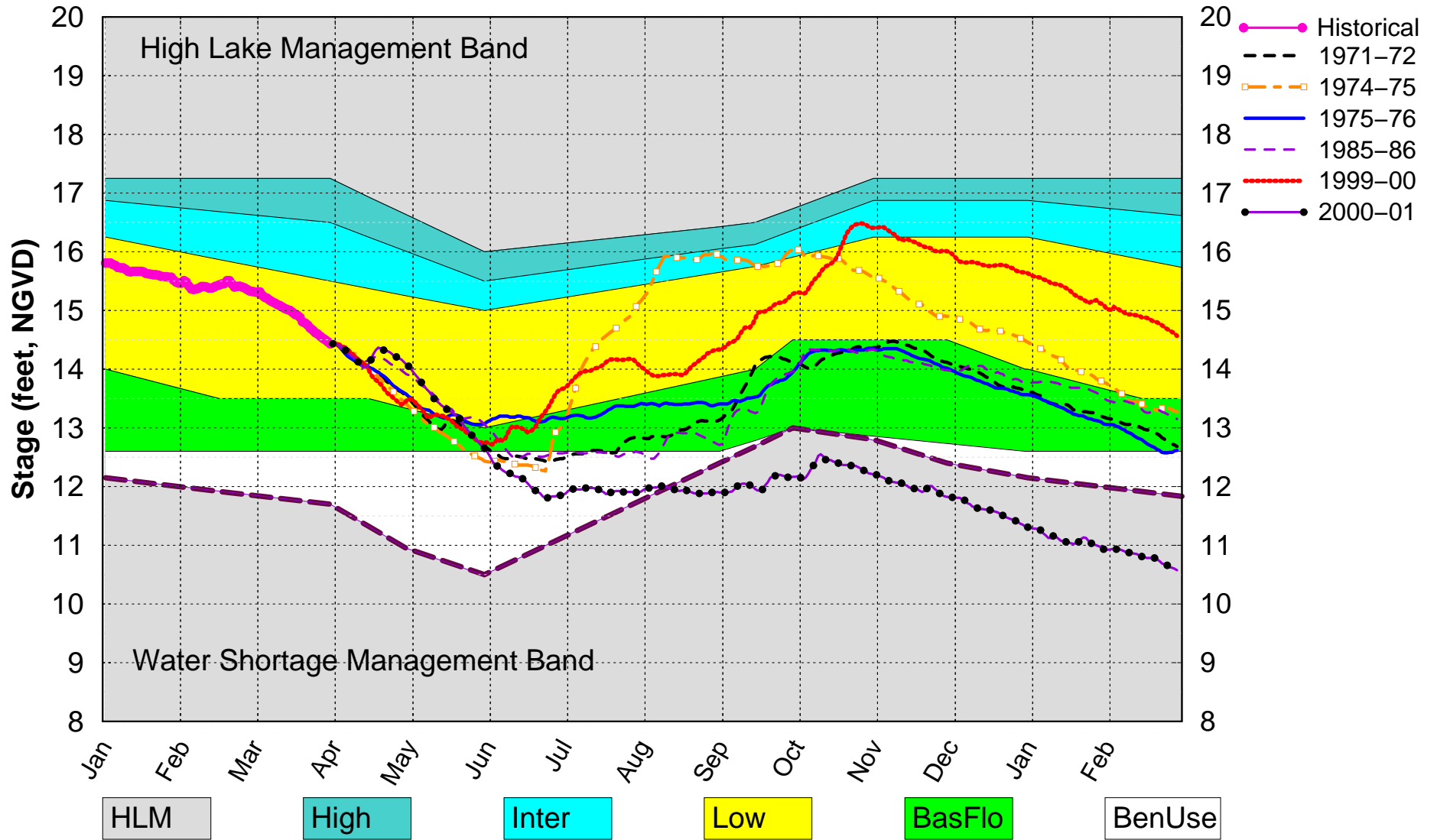
Wet Years Plot PA_HABS



(See assumptions on the Position Analysis Results website)

Lake Okeechobee SFWMM Apr 2021 Position Analysis

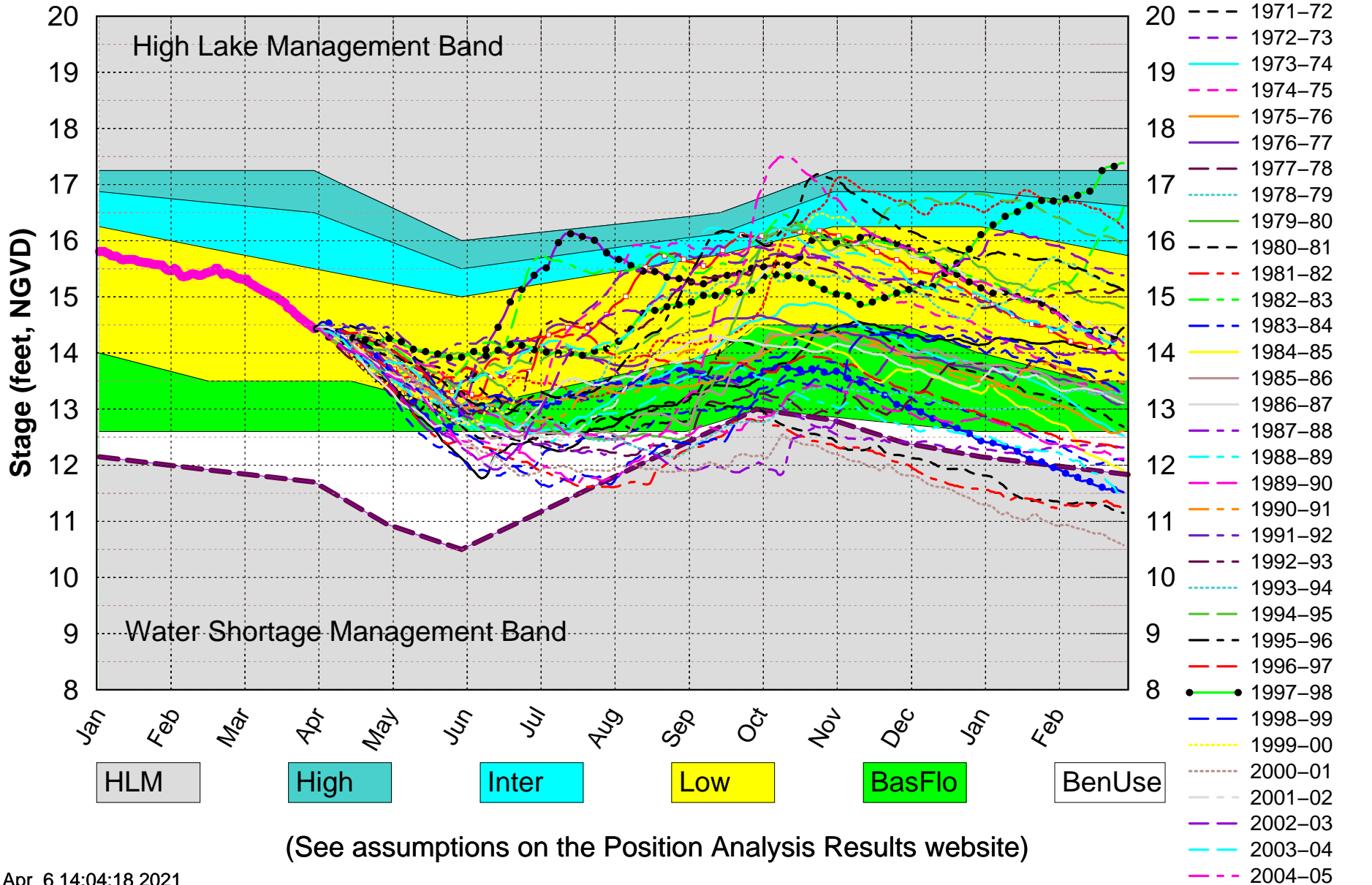
All La Nina Years Plot PA_HABS



(See assumptions on the Position Analysis Results website)

Lake Okeechobee SFWMM Apr 2021 Position Analysis

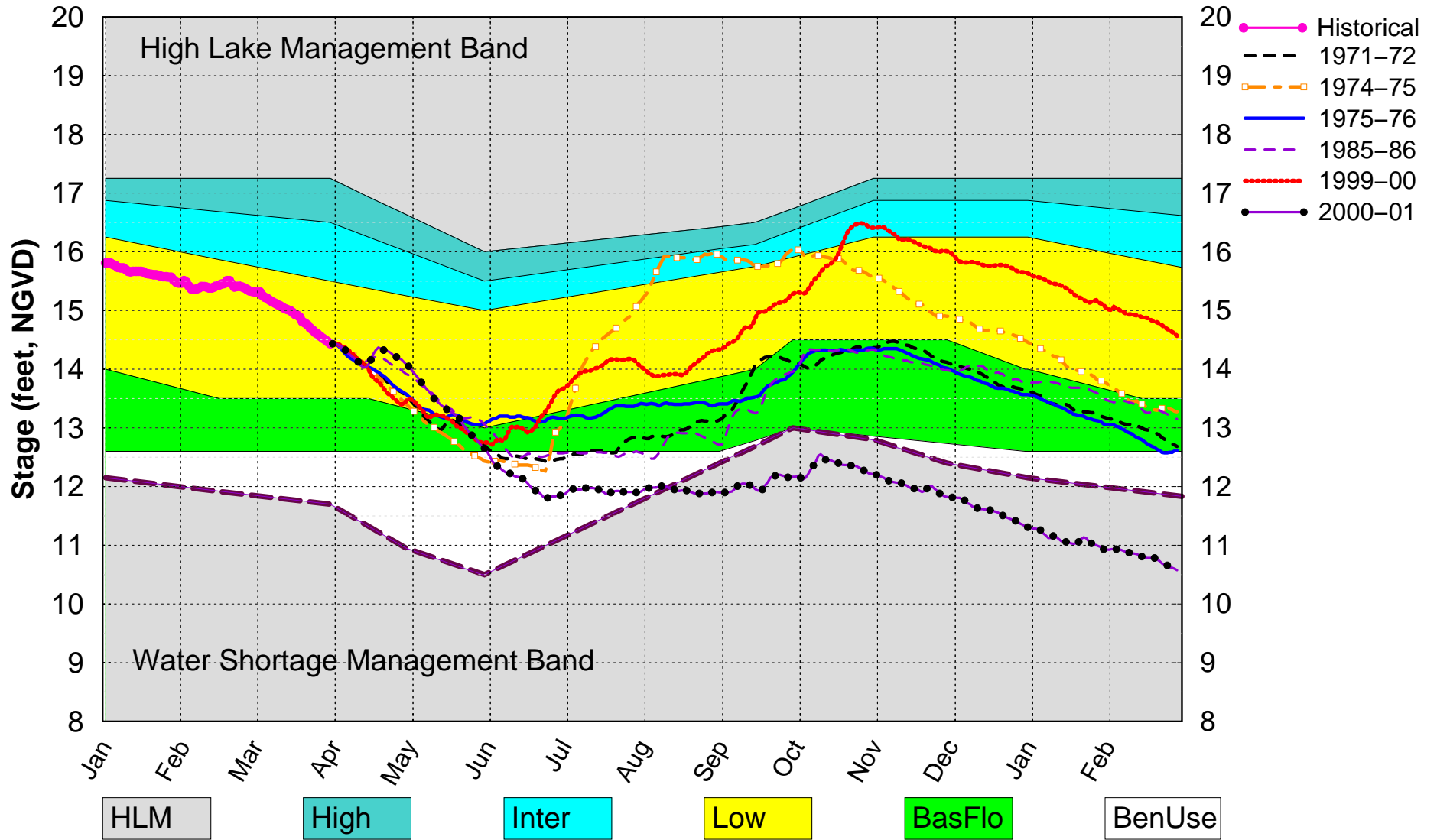
All Simulated Years Plot PA_HABS



(See assumptions on the Position Analysis Results website)

Lake Okeechobee SFWMM Apr 2021 Position Analysis

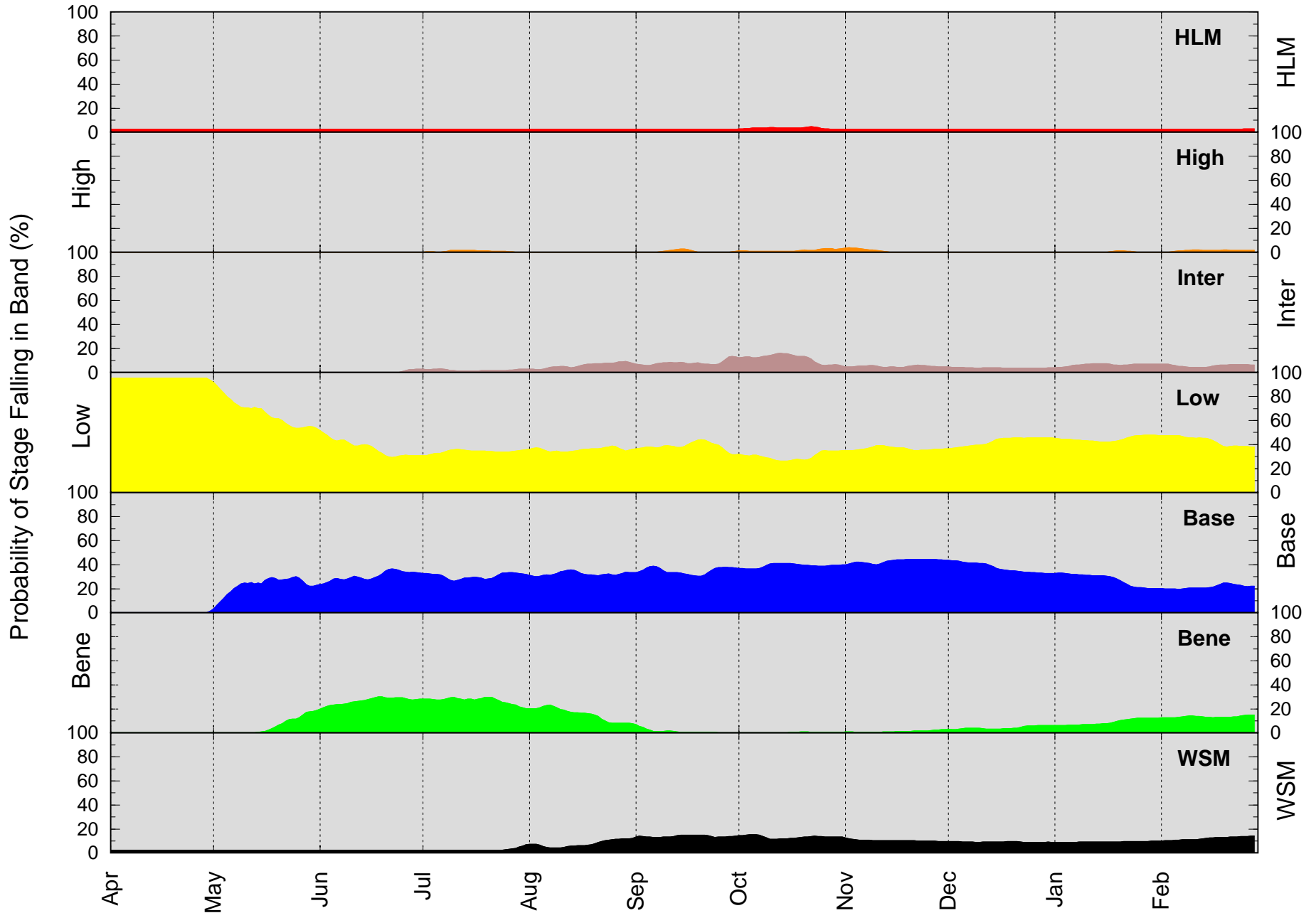
All La Nina Years Plot PA_HABS



(See assumptions on the Position Analysis Results website)

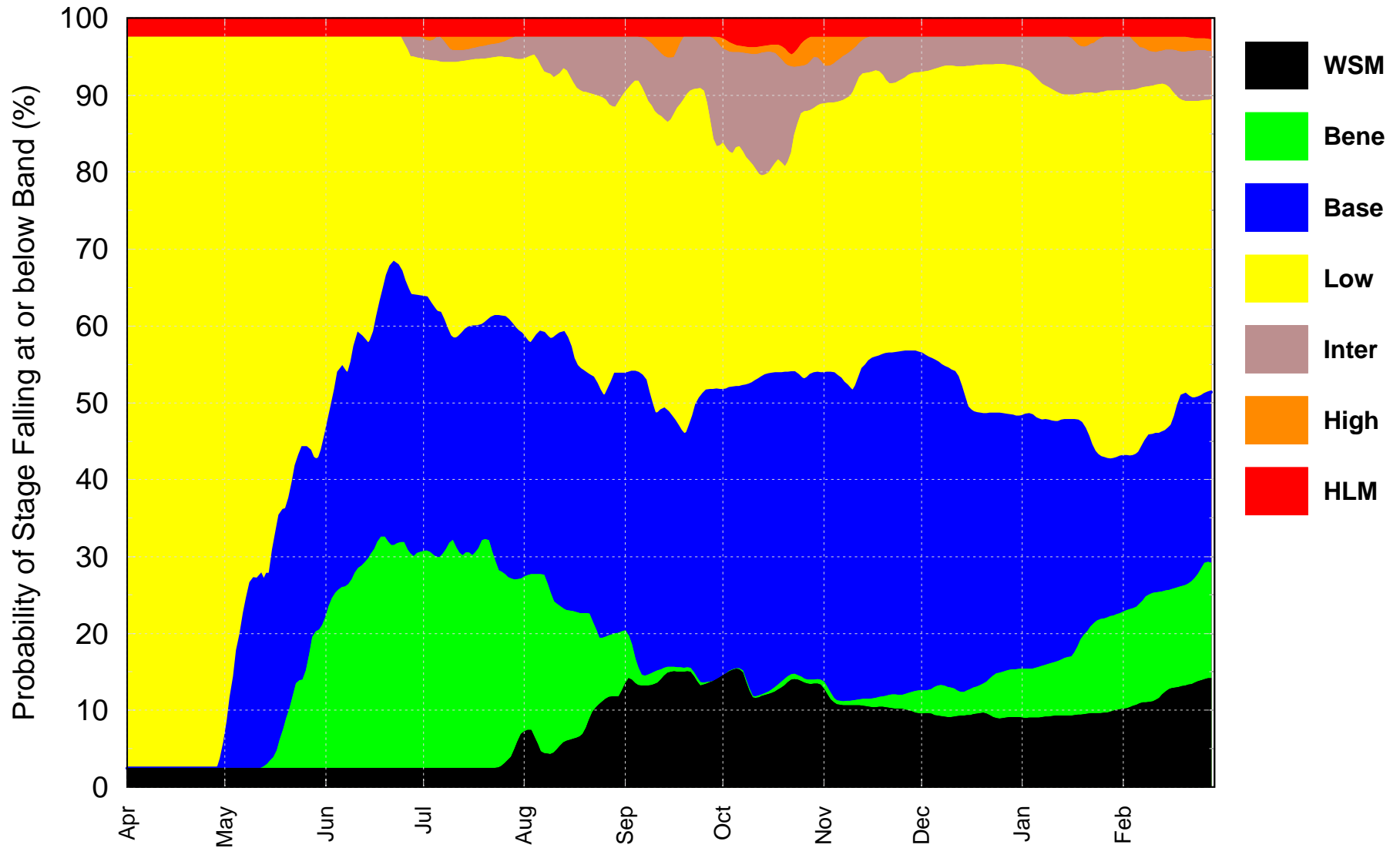
Lake Okeechobee – Band Probabilities

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



Lake Okeechobee – Probabilities for Operational Bands

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



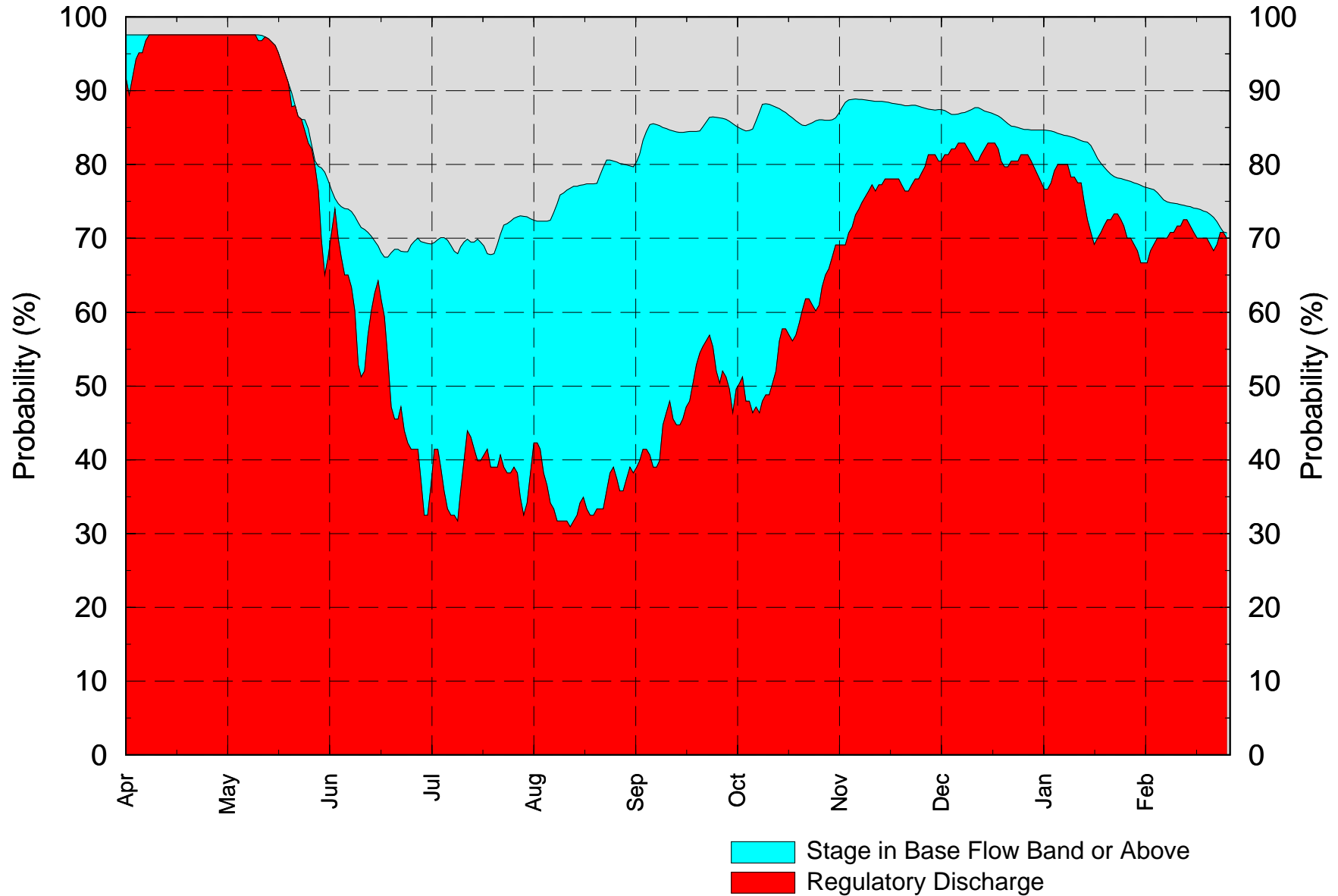
The width for each band gives the probability of stage falling in that band, as defined by the operational schedules.

Lake Okechobee Band Probabilities (%) at the Beginning of Each Month
'(See assumptions on the Position Analysis Results website)'
Initial Stage 15.32 ft. for 03/01/2021

Date	HLM	High	Inter	Low	Base	Bene	WSM
2021 03 01	2.4	0.0	0.0	95.1	0.0	0.0	2.4
2021 04 01	2.4	0.0	0.0	95.1	0.0	0.0	2.4
2021 05 01	2.4	0.0	0.0	91.7	3.4	0.0	2.4
2021 06 01	2.4	0.0	0.0	51.8	23.6	19.7	2.4
2021 07 01	2.4	0.2	2.7	31.0	32.9	28.3	2.4
2021 08 01	2.4	0.0	2.9	36.3	31.1	20.1	7.2
2021 09 01	2.4	0.0	7.2	36.7	33.4	6.9	13.4
2021 10 01	2.7	1.3	12.2	32.2	37.1	-0.0	14.5
2021 11 01	2.4	3.7	4.9	35.1	40.1	0.9	12.7
2021 12 01	2.4	0.0	4.6	36.7	43.7	3.1	9.5
2022 01 01	2.4	0.0	4.1	45.4	32.8	6.3	9.0
2022 02 01	2.4	0.0	7.0	47.6	20.2	12.7	10.2

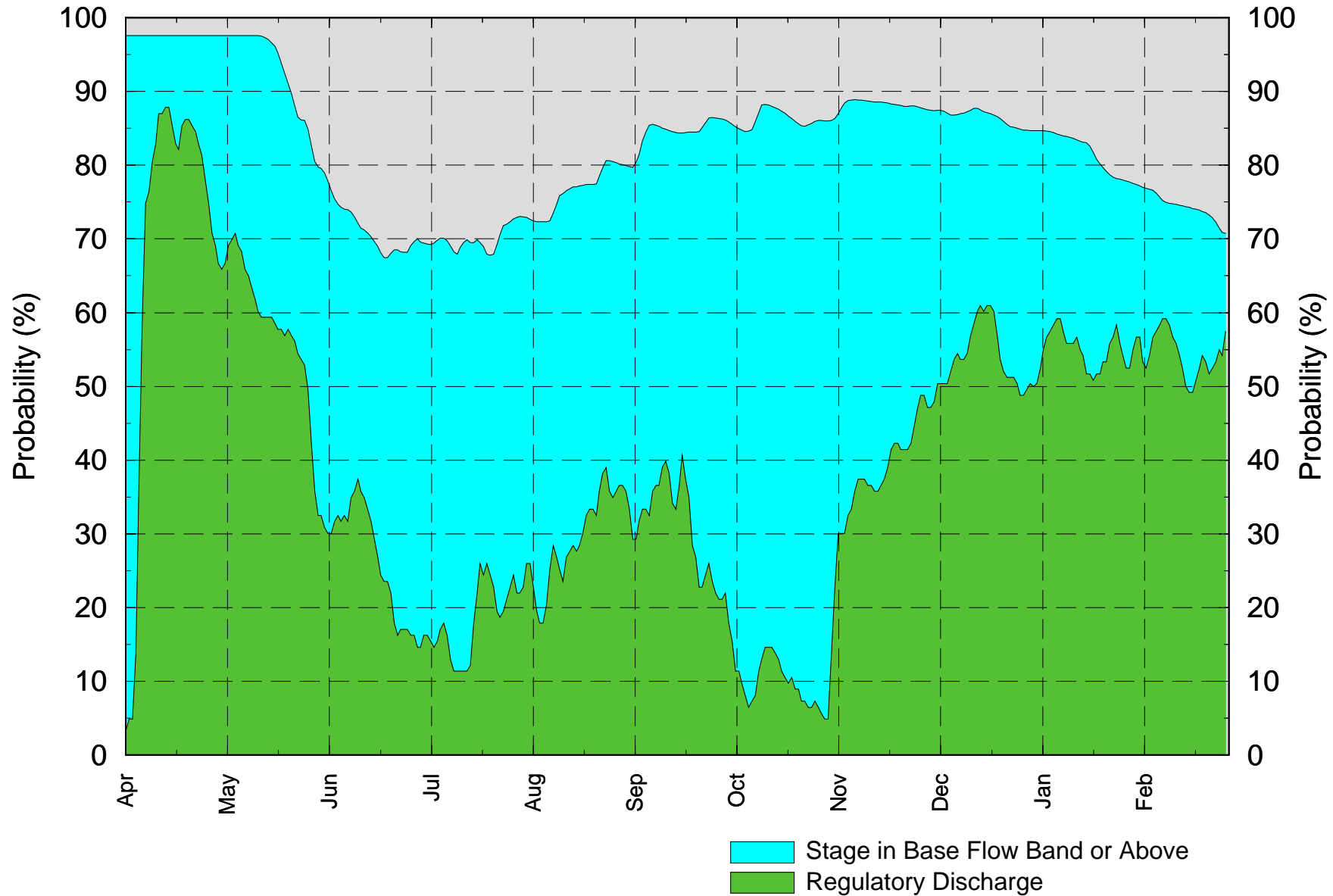
Lake Okeechobee – LORS2008 Releases to the Estuaries

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



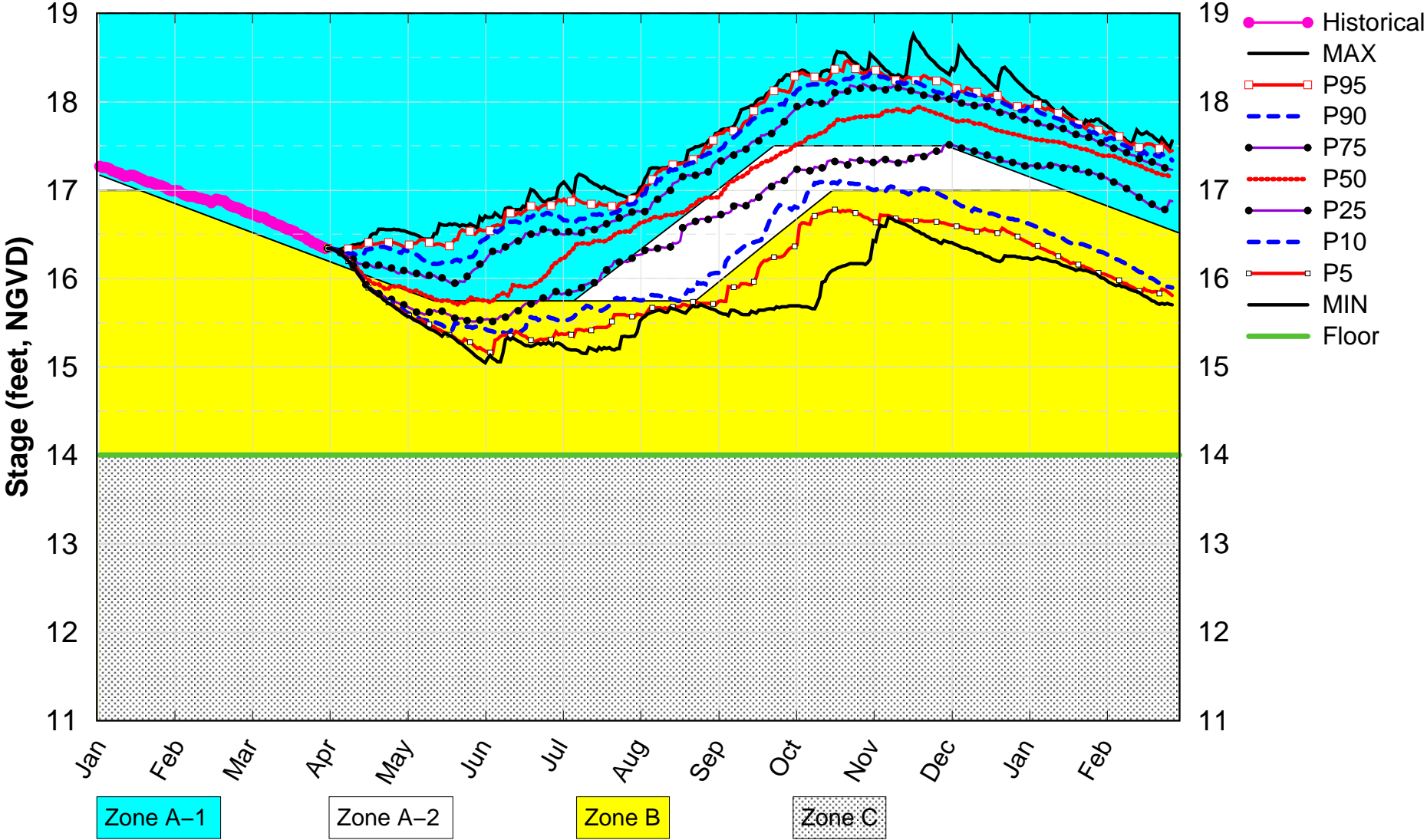
Lake Okeechobee – LORS2008 Releases to the WCA's

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



WCA1 SFWMM Apr 2021 Position Analysis

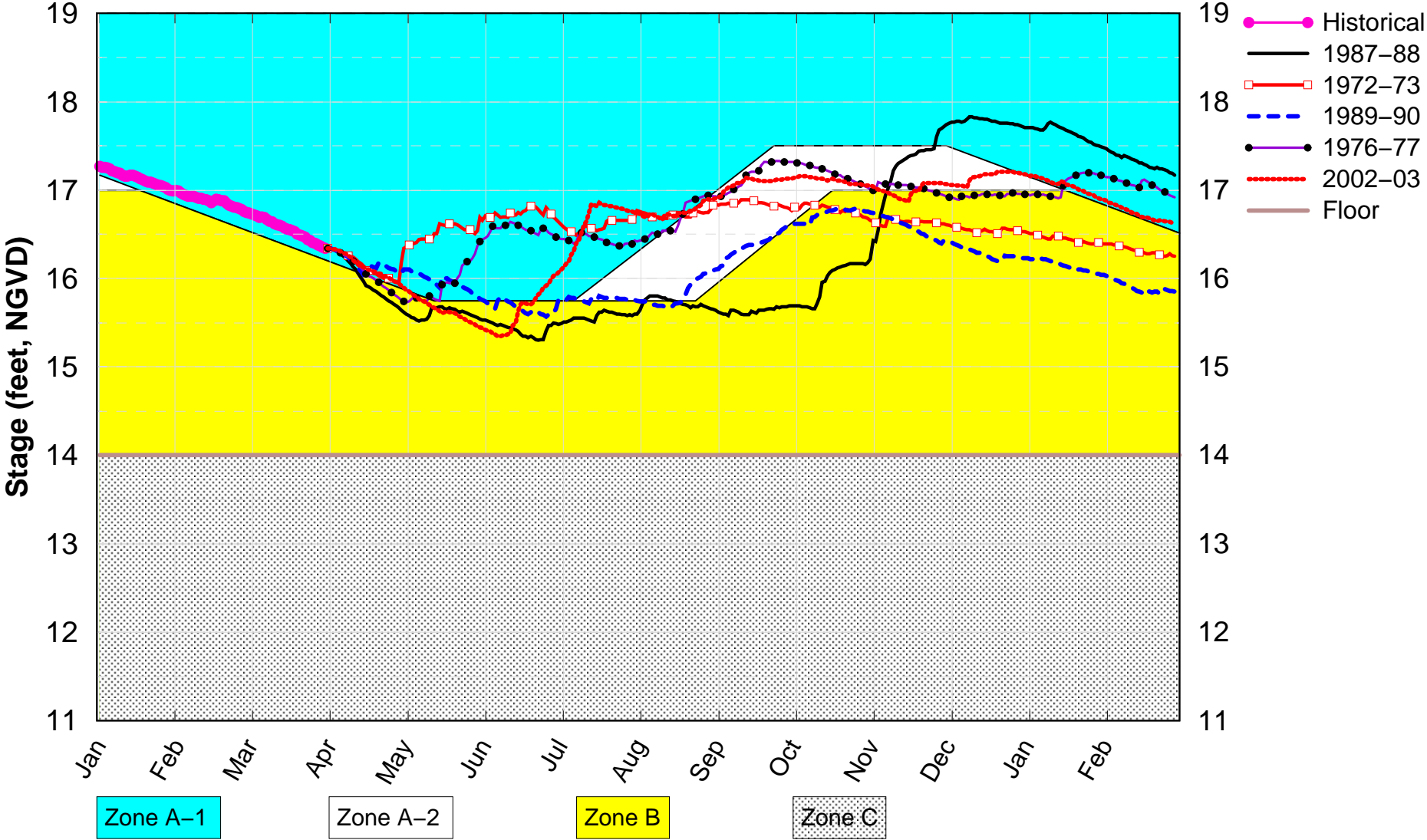
Percentiles PA_HABS



(See assumptions on the Position Analysis Results website)

WCA1 SFWMM Apr 2021 Position Analysis

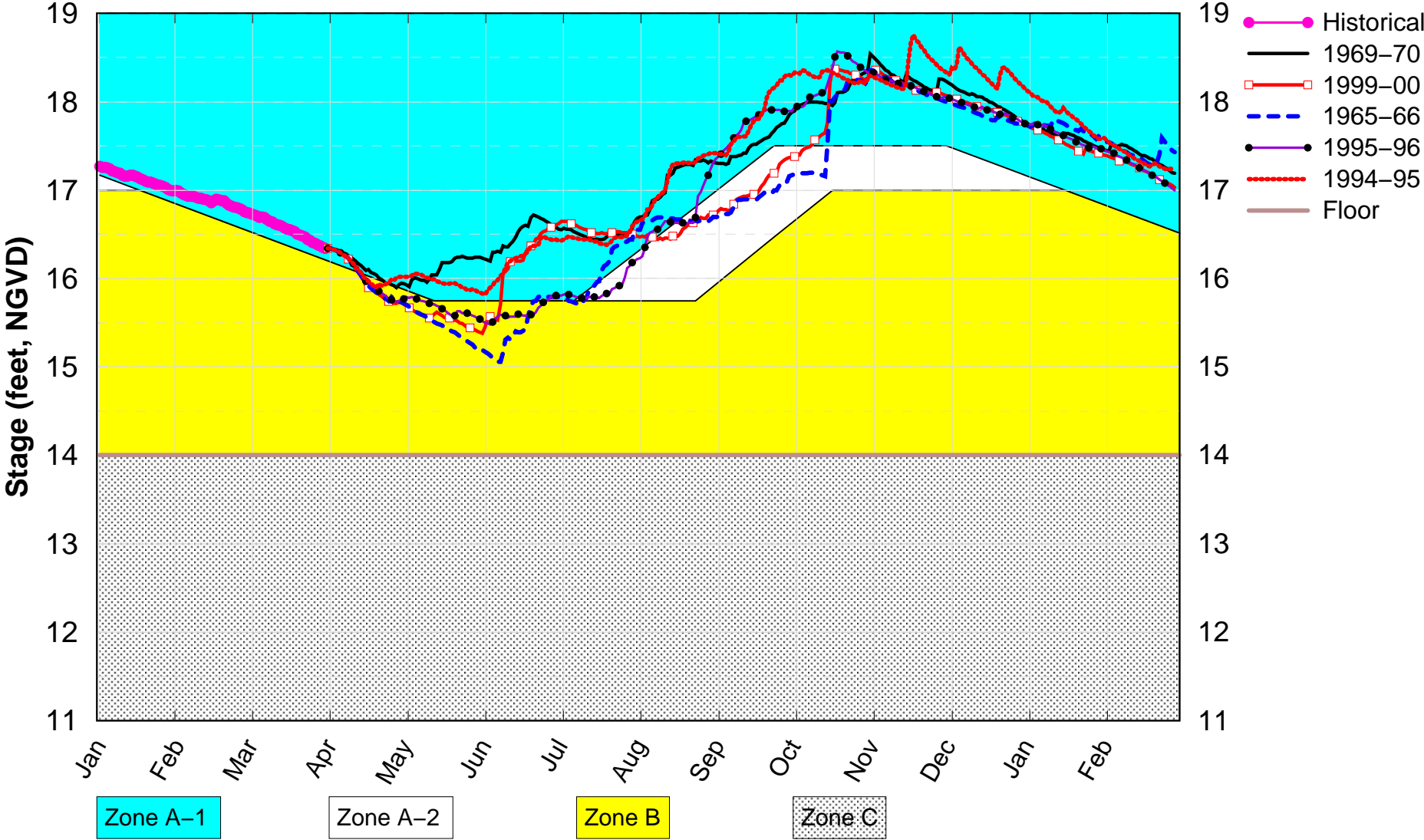
Dry Years Plot PA_HABS



(See assumptions on the Position Analysis Results website)

WCA1 SFWMM Apr 2021 Position Analysis

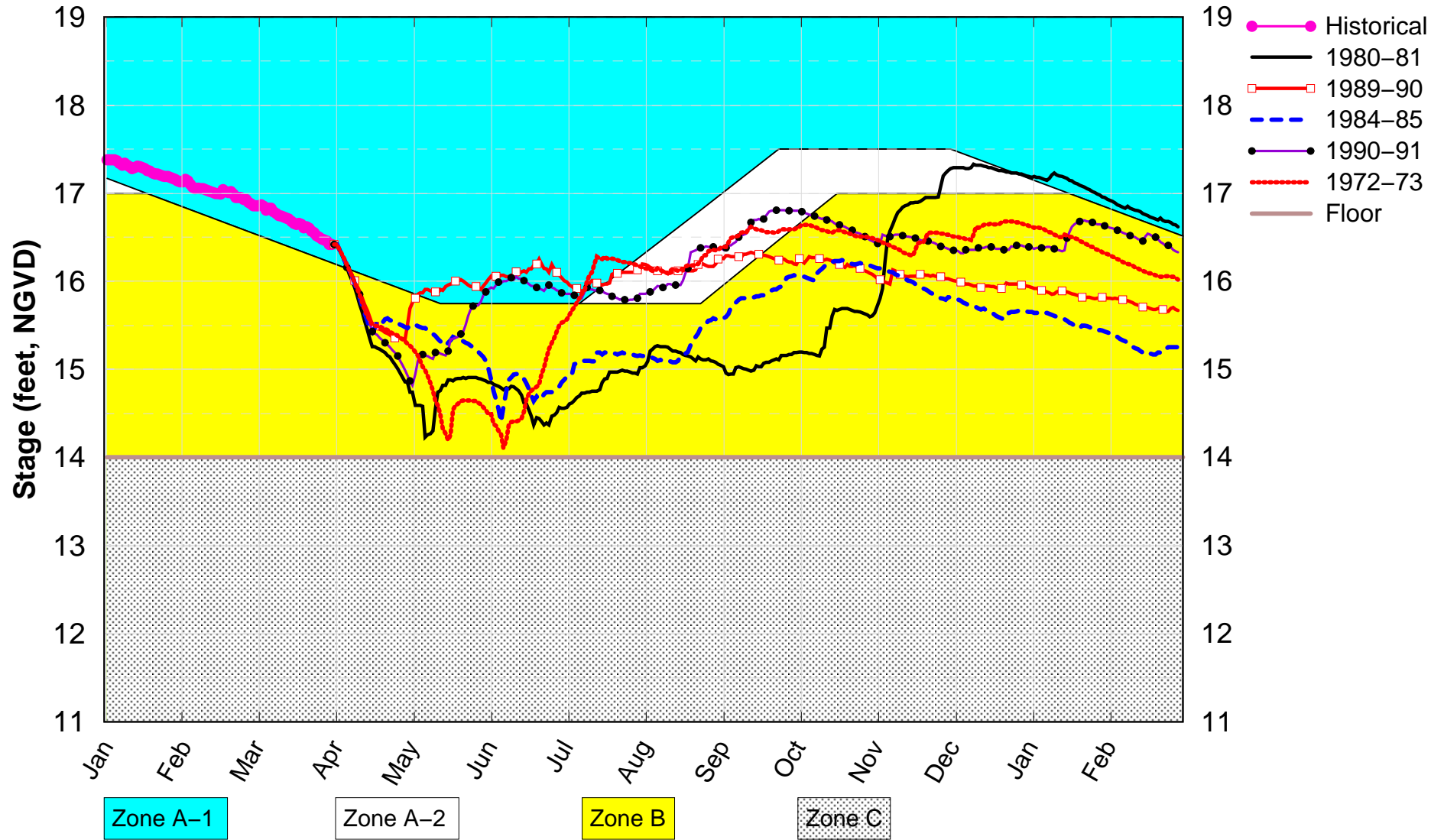
Wet Years Plot PA_HABS



(See assumptions on the Position Analysis Results website)

CA1 Canal SFWMM Apr 2021 Position Analysis

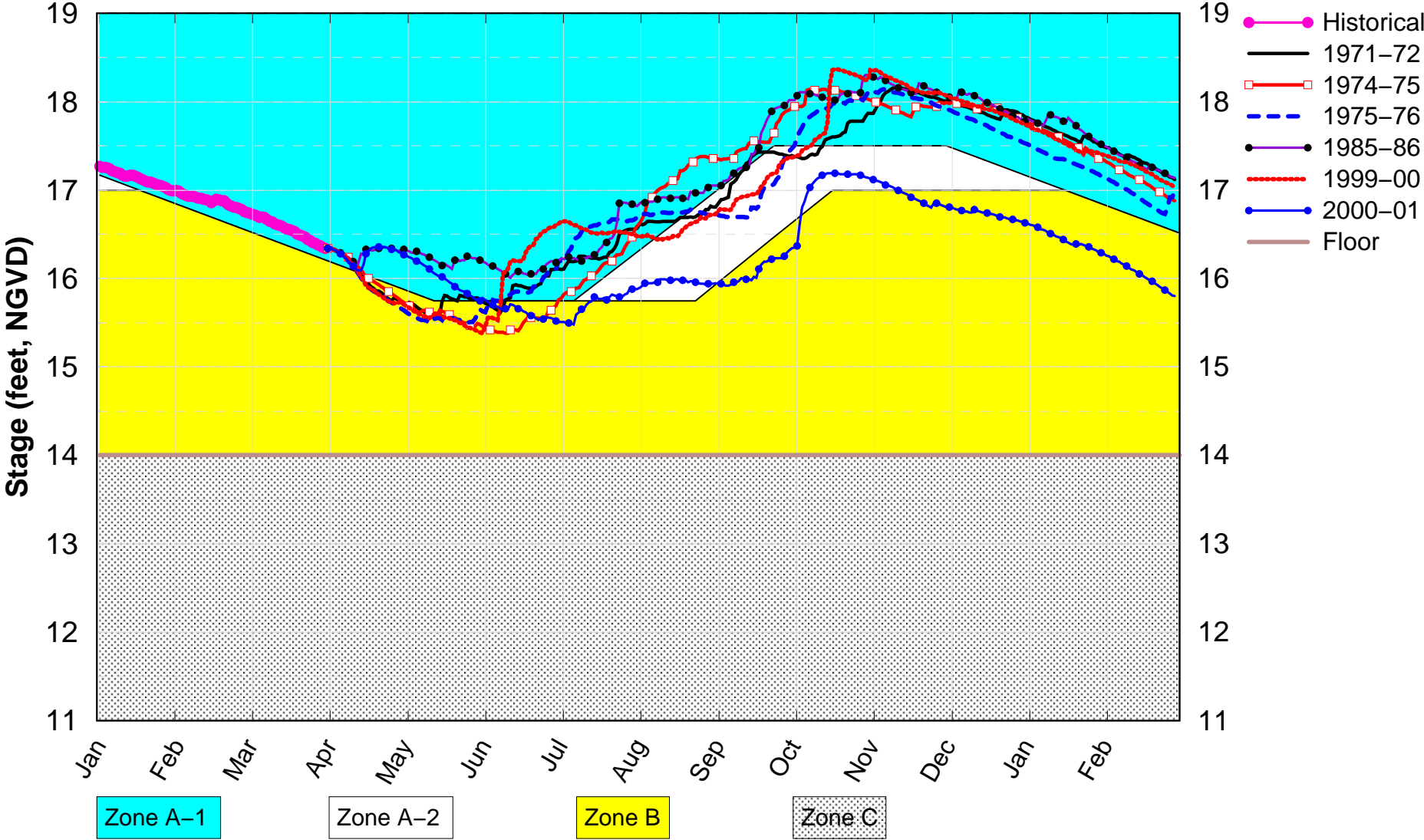
PA_HABS Dry Years Plot



(See assumptions on the Position Analysis Results website)

WCA1 SFWMM Apr 2021 Position Analysis

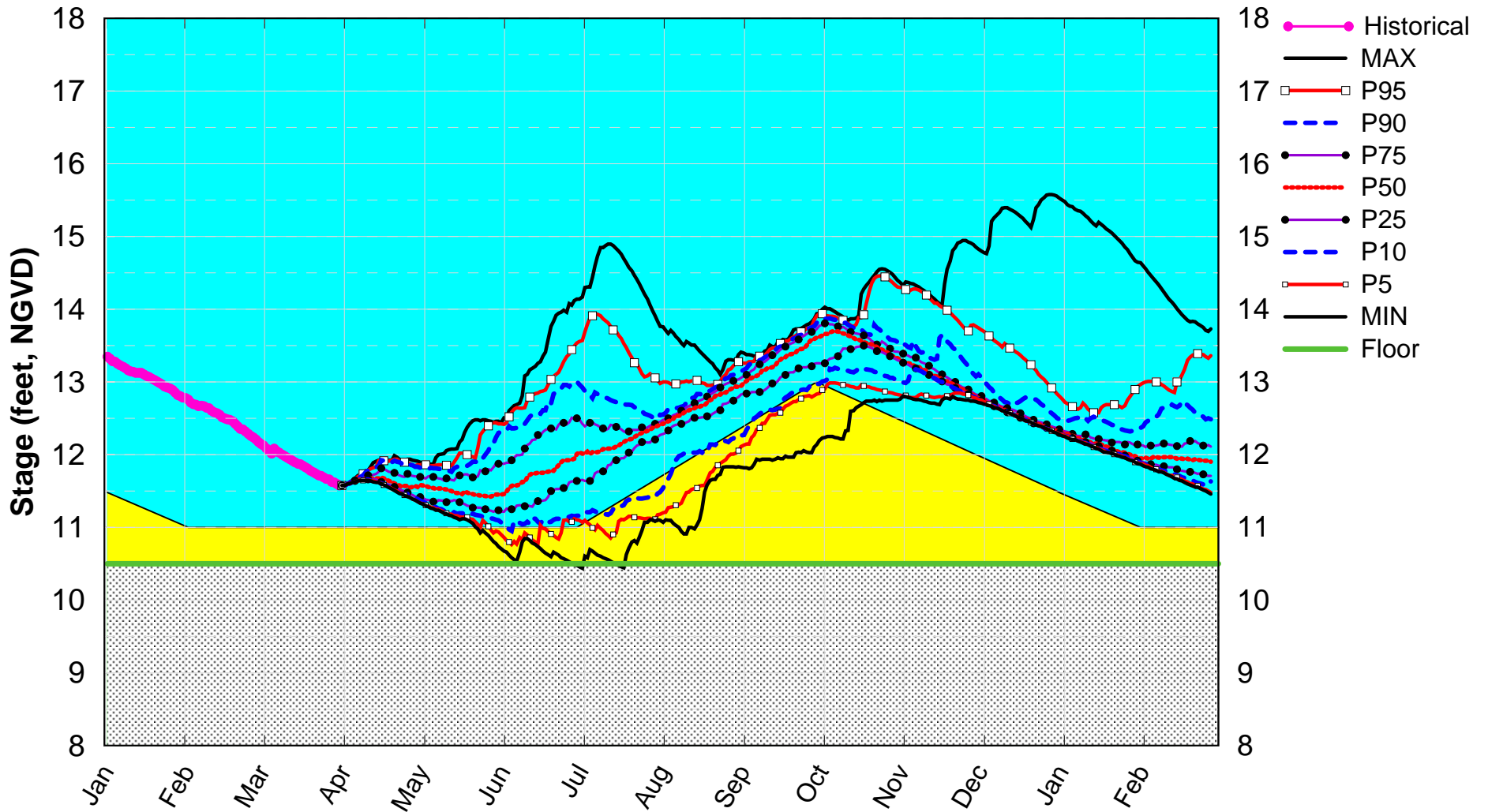
All La Nina Years Plot PA_HABS



(See assumptions on the Position Analysis Results website)

WCA2A SFWMM Apr 2021 Position Analysis

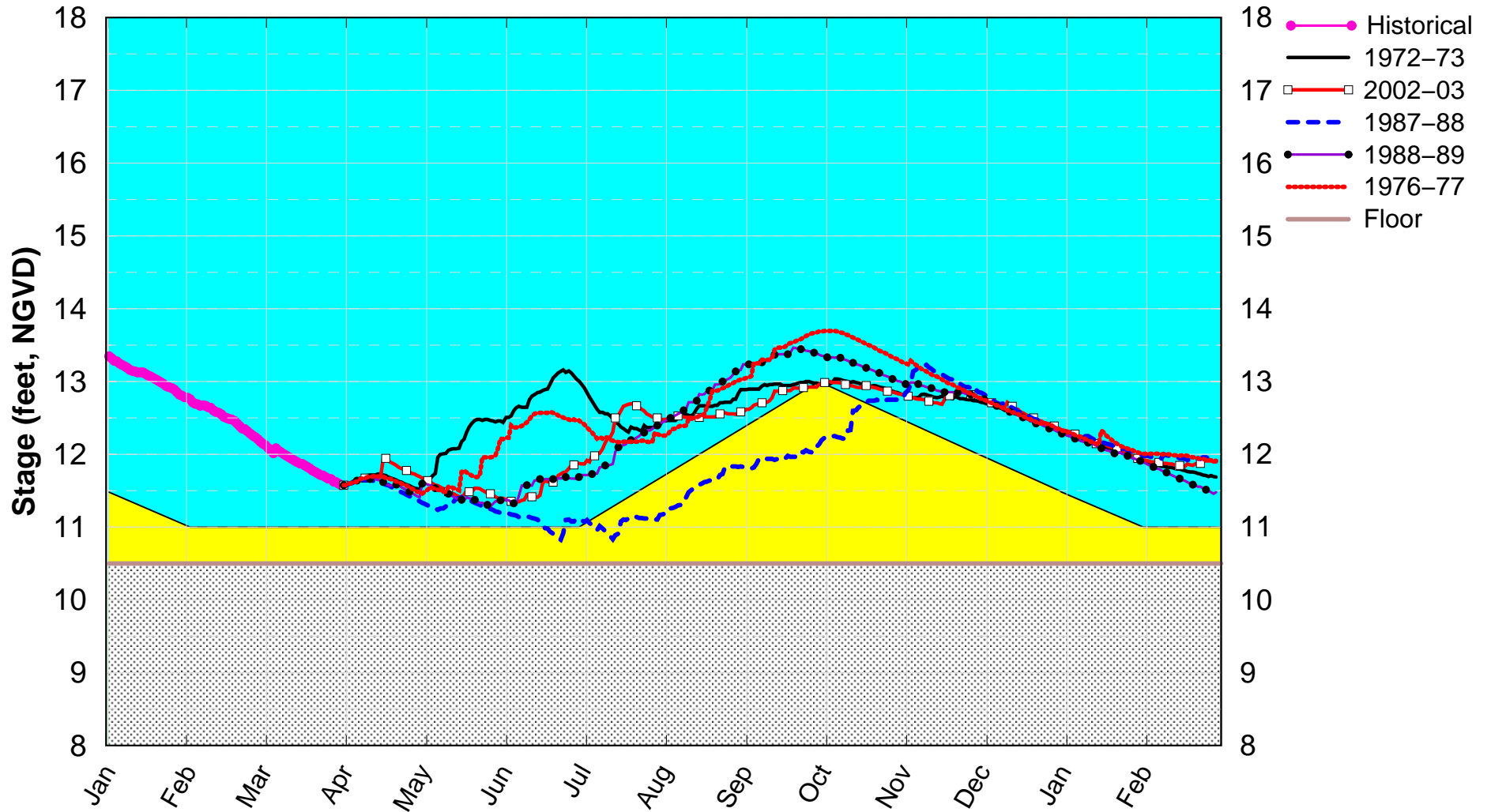
Percentiles PA_HABS



(See assumptions on the Position Analysis Results website)

WCA2A SFWMM Apr 2021 Position Analysis

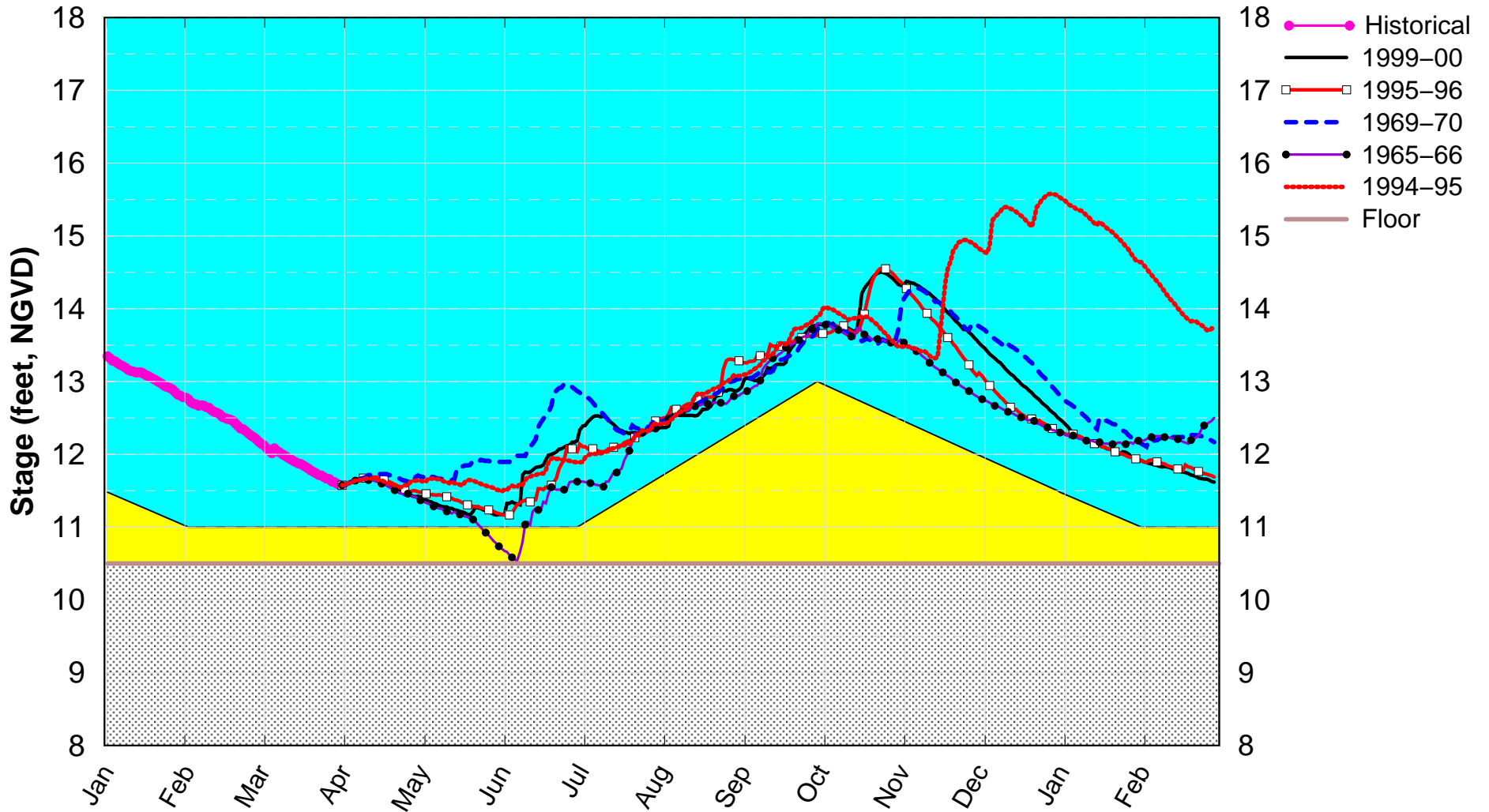
Dry Years Plot PA_HABS



(See assumptions on the Position Analysis Results website)

WCA2A SFWMM Apr 2021 Position Analysis

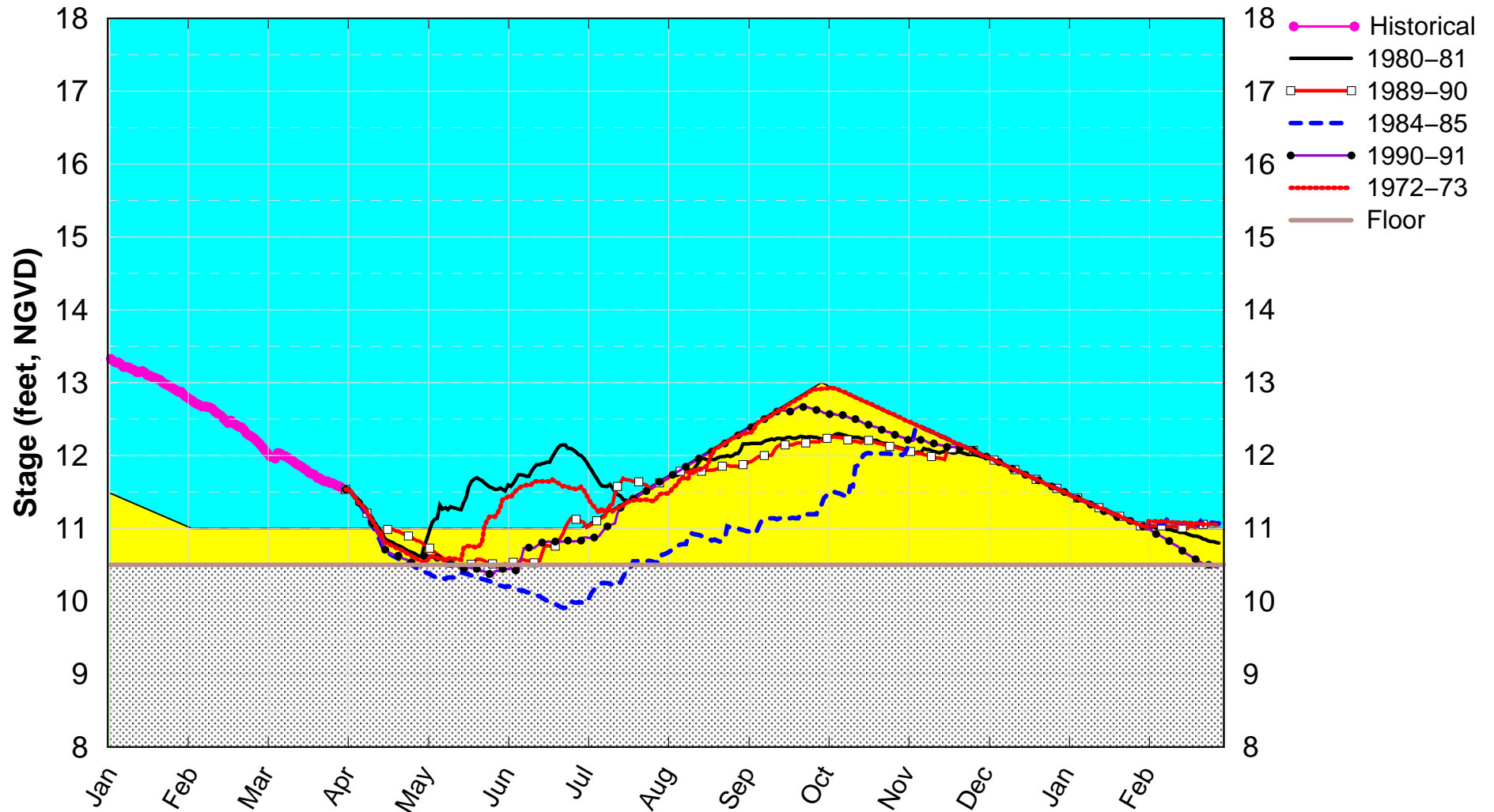
Wet Years Plot PA_HABS



(See assumptions on the Position Analysis Results website)

L38 Canal SFWMM Apr 2021 Position Analysis

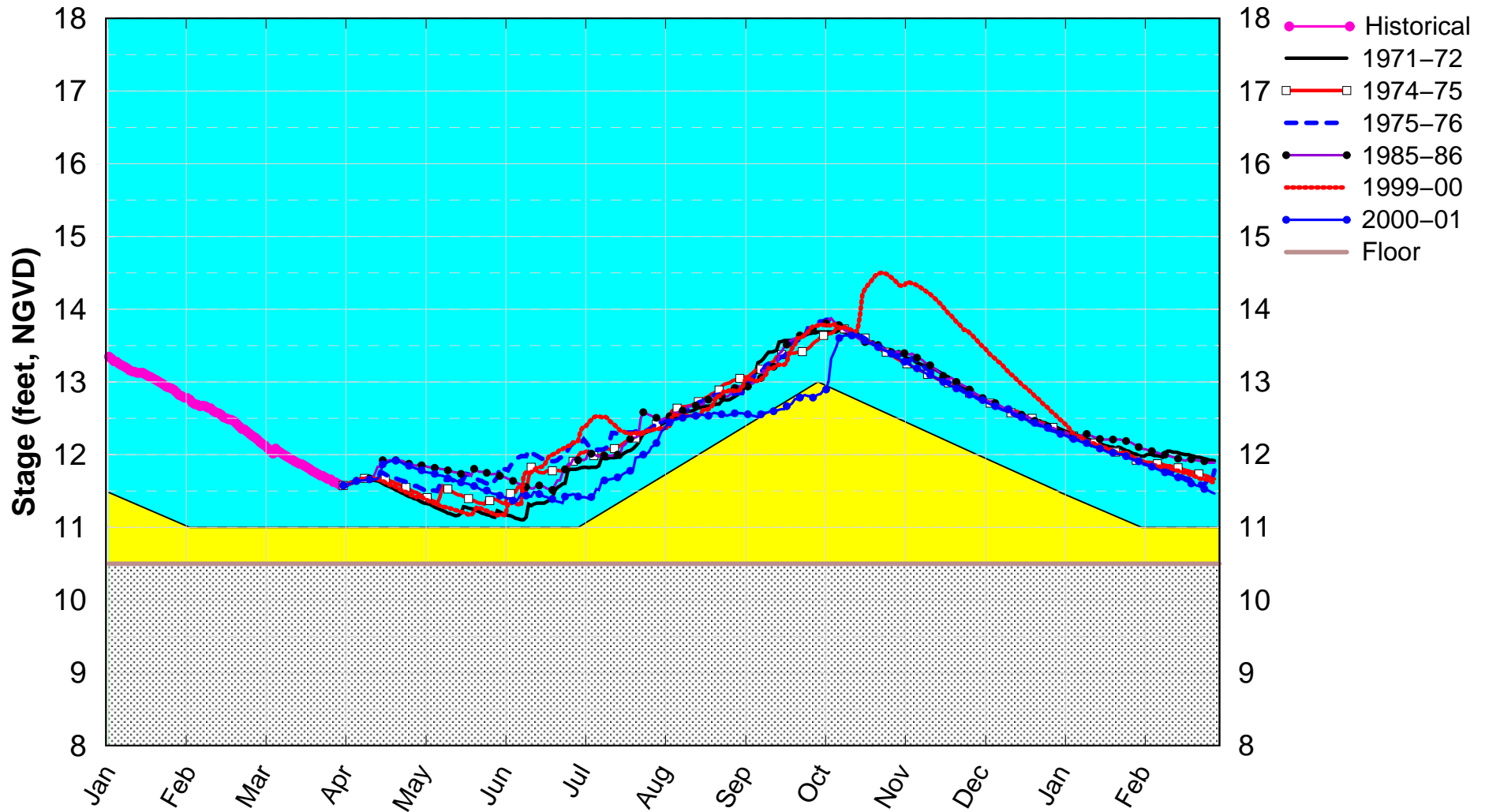
PA_HABS Dry Years Plot



(See assumptions on the Position Analysis Results website)

WCA2A SFWMM Apr 2021 Position Analysis

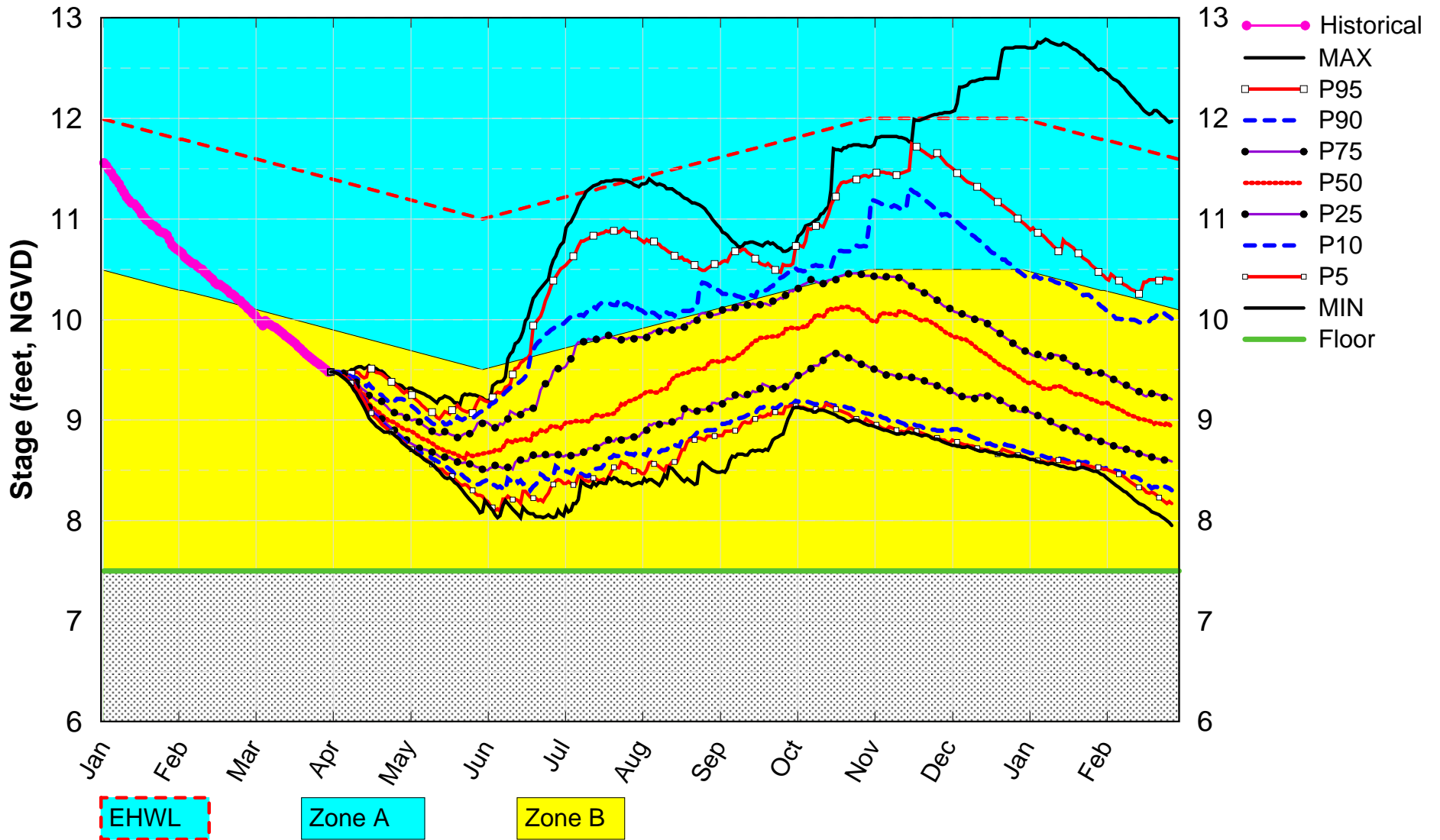
All La Nina Years Plot PA_HABS



(See assumptions on the Position Analysis Results website)

WCA3A SFWMM Apr 2021 Position Analysis

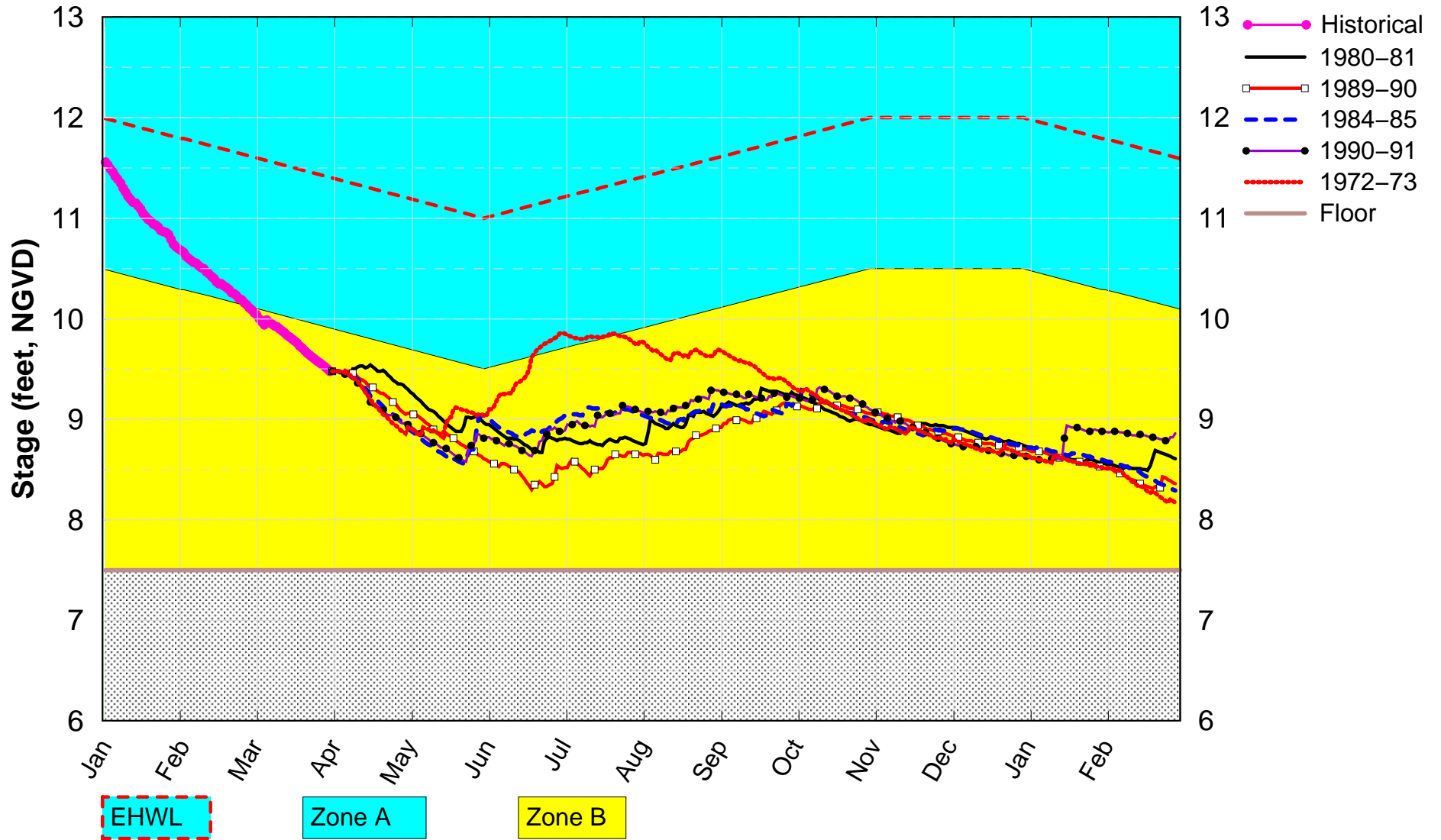
Percentiles PA_HABS



(See assumptions on the Position Analysis Results website)

WCA3A SFWMM Apr 2021 Position Analysis

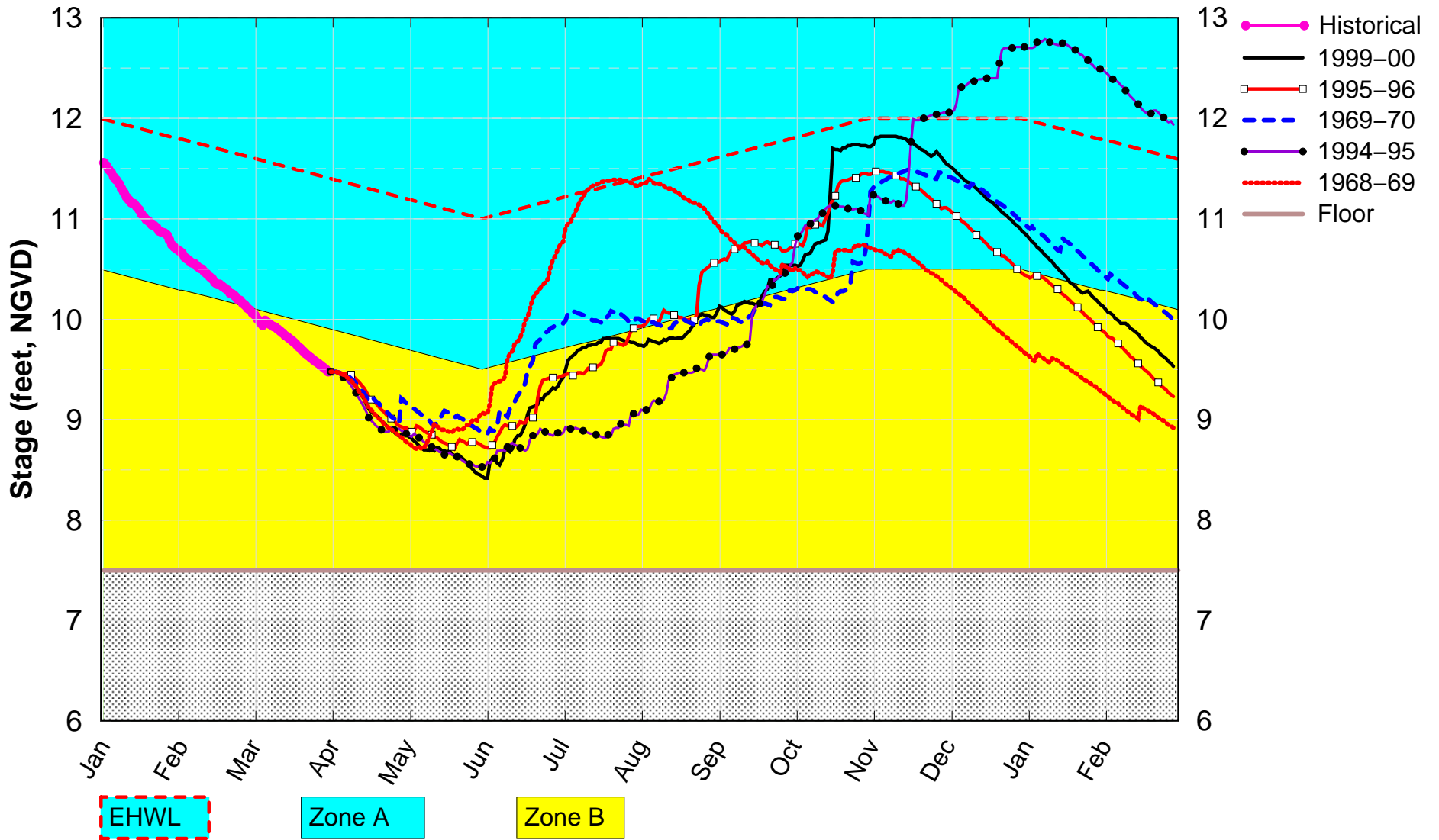
Dry Years Plot PA_HABS



(See assumptions on the Position Analysis Results website)

WCA3A SFWMM Apr 2021 Position Analysis

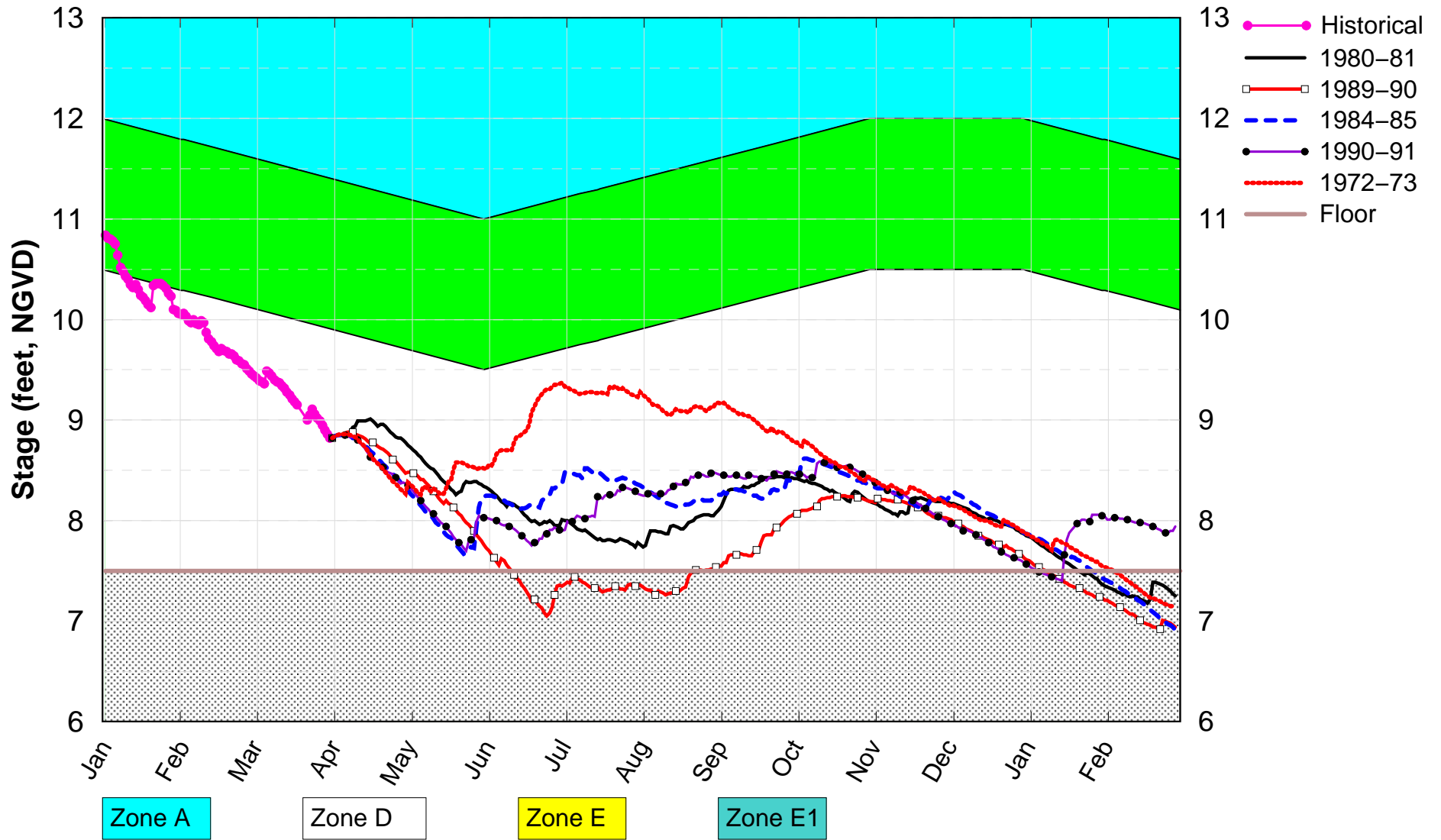
Wet Years Plot PA_HABS



(See assumptions on the Position Analysis Results website)

CA3 Canal SFWMM Apr 2021 Position Analysis

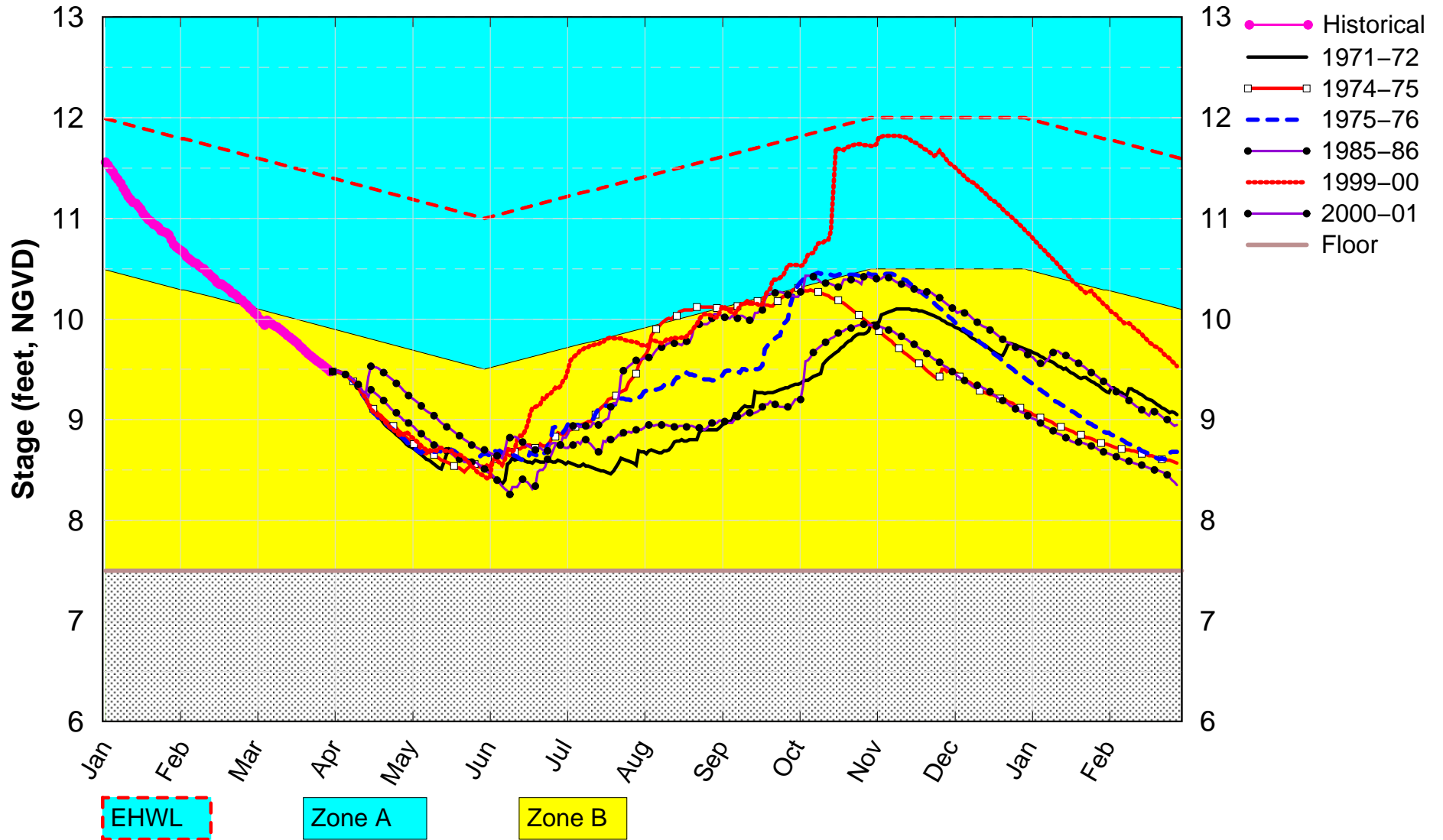
PA_HABS Dry Years Plot



(See assumptions on the Position Analysis Results website)

WCA3A SFWMM Apr 2021 Position Analysis

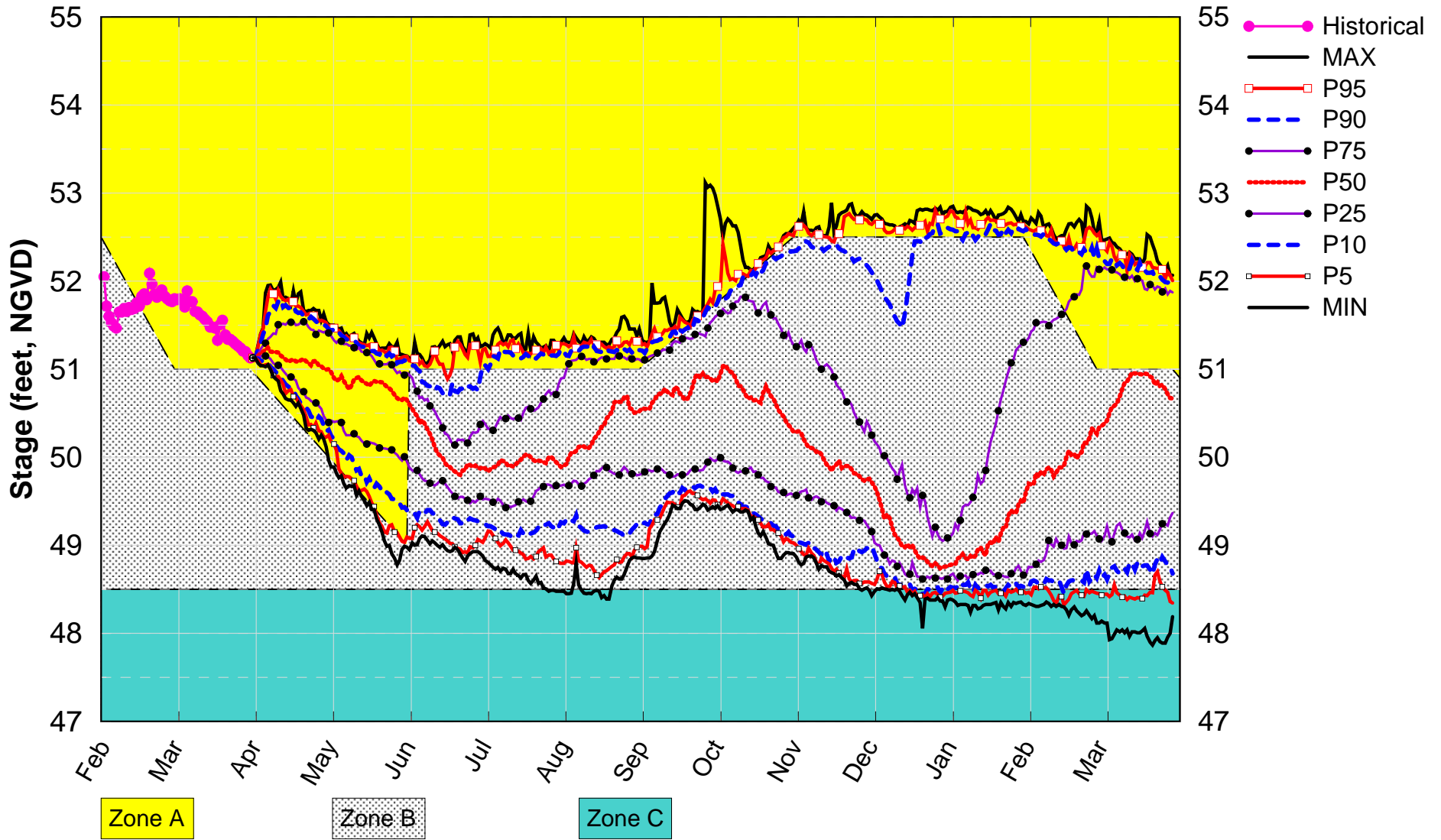
All La Nina Years Plot PA_HABS



(See assumptions on the Position Analysis Results website)

S65 UK-OPS Apr 1 2021 Position Analysis

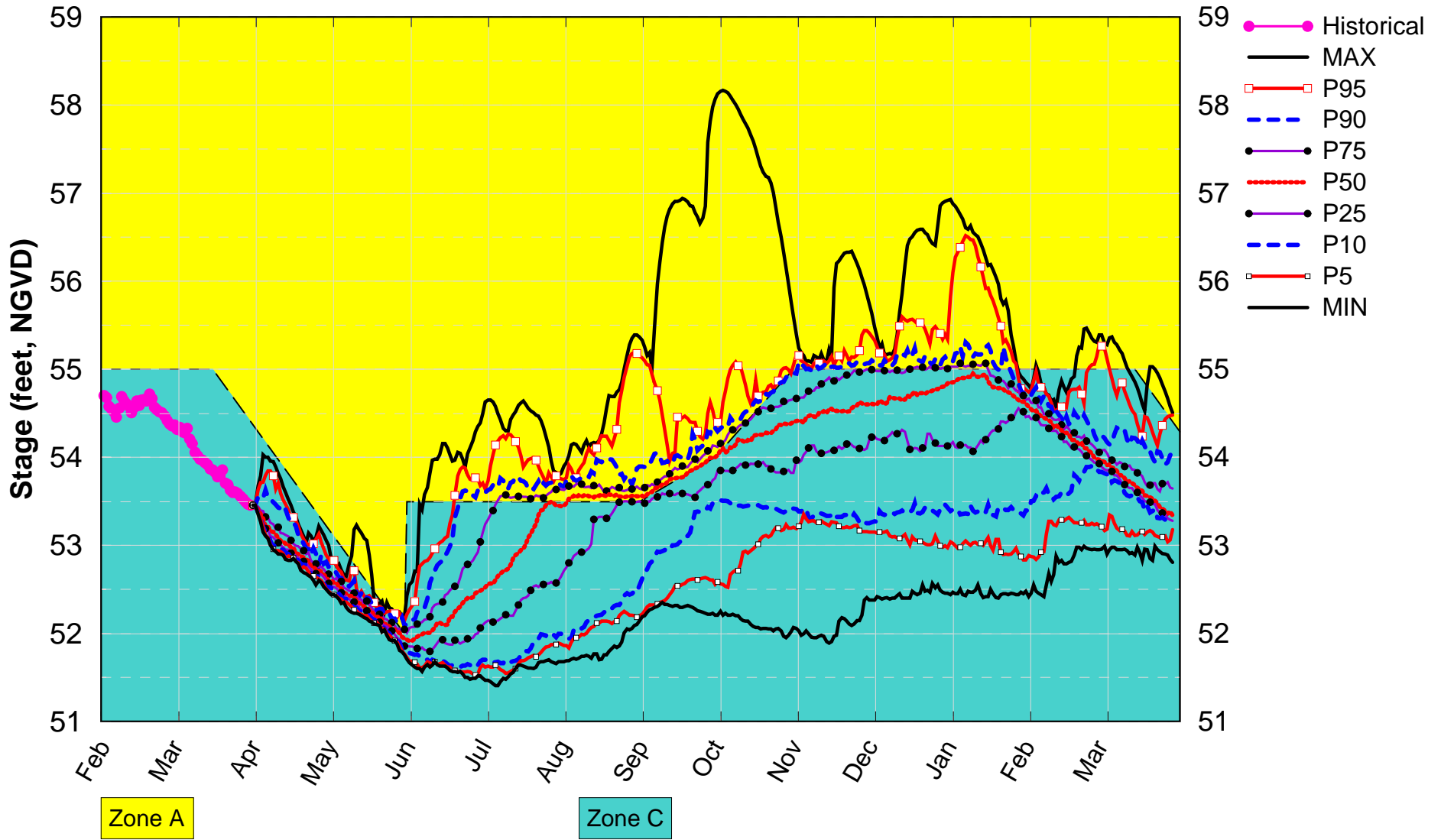
UK-OPS_HAB4 Unconditional PA



(See assumptions on the Position Analysis Results website)

S61 UK-OPS Apr 1 2021 Position Analysis

UK-OPS_HAB4 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 operating assumptions are updated as needed to represent the intended operations strategy for the upcoming year. 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	: 13.28
WPB	:C-17	:C17	:S44-H	: 6.13
WPB	:C-51W	:C51W	:S5AE-T	: 12.26
WPB	:C-51	:C51	:S155-H	: 8.34
WCA	:WCA-1 L-40	:CA1	:1-8C	: 16.42
FTLD	:Hillsboro Canal	:HLSB	:G56-H	: 7.64
WCA	:WCA-2A L-38	:L38	:S11B-H	: 11.54
WCA	:WCA-2A L-39	:CA2A	:S10A-T	: 12.39
FTLD	:C-14	:C14	:S37B-H	: 6.70
FTLD	:C-14E	:C14E	:S37A-H	: 3.84
FTLD	:Pompano	:POMP	:G57-H	: 4.64
FTLD	:C-12	:C12	:S33-H	: 2.98
FTLD	:C-13	:C13	:S36-H	: 4.57
FTLD	:North New River Canal	:NNRC	:G54-H	: 4.11
MIAMI	:L-33	:L33	:S30-H	: 5.77
MIAMI	:C-304	:C304	:S31-H	: 7.63
MIAMI	:C-9	:C9	:S29-H	: 2.15
MIAMI	:C-9 DEN	:C9DEN	:S29-H	: 2.15
MIAMI	:C-8	:C8	:S28-H	: 1.90
MIAMI	:C-7	:C7	:S27-H	: 1.71
MIAMI	:C-6	:C6	:S26-H	: 2.69
MIAMI	:C-2/C-4	:C4	:S25B-H	: 2.84
MIAMI	:L-30	:L30	:S335-H	: 6.56
WCA	:WCA-3A L-29	:CA3	:S333-H	: 8.84
WCA	:S-12A	:S12AD	:S12A-T	: 7.97
WCA	:S-12B	:S12BD	:S12B-T	: 8.05
WCA	:S-12C	:S12CD	:S12C-T	: 8.22
WCA	:S-12D	:S12DD	:S12D-T	: 8.73
MIAMI	:L-29	:L29	:S334-H	: 8.15
MIAMI	:C-100C	:C100C	:S119-H	: 2.58
MIAMI	:C-100	:C100	:S118-H	: 2.67
MIAMI	:C-100A	:C100A	:S123-H	: 2.46
HMST	:C-1/S-148	:S148U	:S148-H	: 3.19
HMST	:L-31N	:L31N	:S331-H	: 4.55
HMST	:C-1N	:C1N	:S149-H	: 2.46
MIAMI	:S-21	:S21	:S21-H	: 2.03
HMST	:L-31S	:L31S	:S176-H	: 4.27
MIAMI	:C-102N	:C102N	:S21A-H	: 1.30
HMST	:C-102	:C102	:S165-H	: 3.06
MIAMI	:C-103S	:C103S	:S167-H	: 2.78
HMST	:C-103N	:C103N	:S166-H	: 2.35
HMST	:C-103	:S179	:S179-H	: 2.00
HMST	:L-31W	:L31W	:S332-H	: 4.23
HMST	:C-111	:C111	:S177-H	: 3.37
HMST	:CNO	:CNO	:S179-H	: 2.00
HMST	:C-111E	:C111E	:S18C-H	: 2.28
HMST	:S-197	:S197	:S197-H	: 1.92
EAA	:L-23E	:L23E	:S8-T	: 11.15
EAA	:C-60	:C60	:S140-T	: 10.47

SFWMM Name	col	row	STAGE	Source	Data	match	domain	match	areas
1-7	31	48	16.36	USACE		PA	CA1		
1-8T	34	47	16.29	USACE		PA	CA1		
1-9	33	46	16.36	USACE		PA	CA1		
2-17	29	40	11.58	USACE		PA	CA2		
2-159	28	43	13.26	SFWMD-ARDAMS		PA	CA2		
3-99	30	35	9.90	USACE			CA2		
3A-2	18	36	10.76	USACE		PA	CA3		
3A-3	25	37	9.60	USACE		PA	CA3		
3A-28	19	24	9.08	USACE		PA	CA3		
3A-4	21	29	9.75	USACE		PA	CA3		
3A-NW	18	40	11.63	SFWMD-ARDAMS			CA3		
3A-NE	23	40	9.85	SFWMD-ARDAMS			CA3		
3A-SW	16	30	9.66	SFWMD-ARDAMS			CA3		
3A-S	20	33	9.97	SFWMD-ARDAMS			CA3		
3-76	27	30	7.73	USACE					
3-71	24	26	7.93	USACE					
SHARK	24	23	7.81	USACE			CA3		
3BS1W	26	23	7.41	SFWMD-ARDAMS					
HOLY1	19	45	11.22	SFWMD-ARDAMS			WMA		
HOLY2	21	42	11.22	SFWMD-ARDAMS			WMA		
ROTTN	15	46	12.97	SFWMD-OPERATIONS			WMA		
ROTTT	16	43	13.04	SFWMD-OPERATIONS			WMA		
NP205	15	20	4.98	USACE			ENP		
NP201	19	21	7.60	USACE			ENP		
NP36	17	14	4.58	USACE			ENP		
NP38	16	9	1.88	USACE			ENP		
NP46	17	7	1.35	USACE			ENP		
NP67	22	7	2.29	USACE					
NP33	20	17	6.71	USACE			ENP		
NP34	13	17	2.58	USACE			ENP		
NP44	19	11	3.33	USACE			ENP		
NP206	21	15	6.36	USACE			ENP		
NESR2	25	21	7.87	USACE			ENP		
THSO	23	9	3.65	USACE					
RG2	23	15	5.90	USACE			ENP		
G3273	24	17	7.18	USACE		PA	ENP		
ANGEL	25	17	6.31	USACE		PA			
ANGEL	26	17	6.31	USACE		PA			
EVER4	25	8	2.11	USACE		PA	SA3		
E112	23	10	4.71	USACE			ENP		
G620	18	19	6.88	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 15.32 ft. for 03/01/2021

Date	HLM	High	Inter	Low	Base	Bene	WSM
2021 03 01	2.4	0.0	0.0	95.1	0.0	0.0	2.4
2021 04 01	2.4	0.0	0.0	95.1	0.0	0.0	2.4
2021 05 01	2.4	0.0	0.0	91.7	3.4	0.0	2.4
2021 06 01	2.4	0.0	0.0	51.8	23.6	19.7	2.4
2021 07 01	2.4	0.2	2.7	31.0	32.9	28.3	2.4
2021 08 01	2.4	0.0	2.9	36.3	31.1	20.1	7.2
2021 09 01	2.4	0.0	7.2	36.7	33.4	6.9	13.4
2021 10 01	2.7	1.3	12.2	32.2	37.1	-0.0	14.5
2021 11 01	2.4	3.7	4.9	35.1	40.1	0.9	12.7
2021 12 01	2.4	0.0	4.6	36.7	43.7	3.1	9.5
2022 01 01	2.4	0.0	4.1	45.4	32.8	6.3	9.0
2022 02 01	2.4	0.0	7.0	47.6	20.2	12.7	10.2

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

Run:
SFWMM v6.7.4 - April 1, 2021 DPA TTFF HAB Final LOK Stage 14.44

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

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1965	10	0	0	0.90	0.00	0.00	0.00	0.00	0.00	0.00
1965	11	0	0	46.34	0.00	0.00	0.00	0.00	0.00	0.00
1965	12	0	0	40.06	0.00	0.00	0.00	0.00	0.00	0.00
1966	1	0	0	0.63	0.00	0.00	0.00	0.00	0.00	0.00
1966	2	0	0	15.47	0.00	0.00	0.00	0.00	0.00	0.00
1966	3	0	0	121.37	0.00	0.00	0.00	0.00	0.00	0.00
1966	4	0	0	58.12	0.00	0.00	0.00	0.00	0.00	0.00
1966	5	0	0	49.58	0.00	0.00	0.01	0.01	0.01	0.01
1966	6	0	0	5.78	0.00	0.00	0.00	0.00	0.00	0.00
1966	7	0	0	0.01	0.00	0.00	0.00	0.00	0.00	0.00
1966	8	0	0	0.87	0.00	0.00	0.00	0.00	0.00	0.00
1966	9	0	0	1.17	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1966	10	0	0	6.66	0.00	0.00	0.00	0.00	0.00	0.00
1966	11	0	0	82.68	0.00	0.00	0.00	0.00	0.00	0.00
1966	12	0	0	53.78	0.00	0.00	0.00	0.00	0.00	0.00
1967	1	0	0	44.72	0.00	0.00	0.00	0.00	0.00	0.00
1967	2	0	0	26.72	0.00	0.00	0.00	0.00	0.00	0.00
1967	3	0	0	121.38	0.00	0.00	0.00	0.00	0.00	0.00
1967	4	0	0	164.26	0.00	0.00	0.02	0.01	0.02	0.01
1967	5	0	0	212.39	0.00	0.00	3.57	1.68	3.57	1.68
1967	6	0	0	22.90	0.00	0.00	0.00	0.00	0.00	0.00
1967	7	0	0	5.64	0.00	0.00	0.07	1.30	0.07	1.30
1967	8	0	0	6.30	0.00	0.00	0.04	0.59	0.04	0.59
1967	9	0	0	12.05	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
1967	10	0	0	1.11	0.00	0.00	0.00	0.00	0.00	0.00
1967	11	0	0	85.29	0.00	0.00	0.00	0.00	0.00	0.00
1967	12	0	0	29.75	0.00	0.00	0.00	0.00	0.00	0.00
1968	1	0	0	59.05	0.00	0.00	0.00	0.00	0.00	0.00
1968	2	0	0	35.84	0.00	0.00	0.01	0.02	0.01	0.02
1968	3	0	0	121.86	0.00	0.00	0.00	0.00	0.00	0.00
1968	4	0	0	125.19	0.00	0.00	0.00	0.00	0.00	0.00
1968	5	0	0	27.87	0.00	0.00	0.00	0.00	0.00	0.00
1968	6	0	0	0.83	0.00	0.00	0.00	0.00	0.00	0.00
1968	7	0	0	11.01	0.00	0.00	0.00	0.00	0.00	0.00
1968	8	0	0	8.81	0.00	0.00	0.00	0.00	0.00	0.00
1968	9	0	0	7.99	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1968	10	0	0	0.54	0.00	0.00	0.00	0.00	0.00	0.00
1968	11	0	0	34.90	0.00	0.00	0.00	0.00	0.00	0.00
1968	12	0	0	83.66	0.00	0.00	0.00	0.00	0.00	0.00
1969	1	0	0	25.62	0.00	0.00	0.00	0.00	0.00	0.00
1969	2	0	0	46.35	0.00	0.00	0.00	0.00	0.00	0.00
1969	3	0	0	121.40	0.00	0.00	0.00	0.00	0.00	0.00
1969	4	0	0	62.67	0.00	0.00	0.00	0.00	0.00	0.00
1969	5	0	0	25.05	0.00	0.00	0.00	0.00	0.00	0.00
1969	6	0	0	22.89	0.00	0.00	0.00	0.00	0.00	0.00
1969	7	0	0	22.13	0.00	0.00	0.04	0.18	0.04	0.18
1969	8	0	0	1.39	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	7.45	0.00	0.00	0.00	0.00	0.00	0.00
1969	11	0	0	10.91	0.00	0.00	0.00	0.00	0.00	0.00
1969	12	0	0	16.72	0.00	0.00	0.00	0.00	0.00	0.00
1970	1	0	0	3.49	0.00	0.00	0.00	0.00	0.00	0.00
1970	2	0	0	11.46	0.00	0.00	0.00	0.00	0.00	0.00
1970	3	0	0	121.40	0.00	0.00	0.00	0.00	0.00	0.00
1970	4	0	0	91.60	0.00	0.00	0.00	0.00	0.00	0.00
1970	5	0	0	169.10	0.00	0.00	1.37	0.81	1.37	0.81
1970	6	0	0	9.94	0.00	0.00	0.00	0.00	0.00	0.00
1970	7	0	0	10.67	0.00	0.00	0.00	0.01	0.00	0.01
1970	8	0	0	6.29	0.00	0.00	0.00	0.00	0.00	0.00
1970	9	0	0	8.80	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1970	10	0	0	10.07	0.00	0.00	0.00	0.00	0.00	0.00
1970	11	0	0	88.36	0.00	0.00	0.00	0.00	0.00	0.00
1970	12	0	0	89.31	0.00	0.00	0.00	0.00	0.00	0.00
1971	1	3	3	62.16	1.71	2.75	0.00	0.00	1.71	2.75
1971	2	28	9	48.93	7.76	15.87	0.03	0.05	7.79	15.92
1971	3	0	0	121.36	0.00	0.00	0.00	0.00	0.00	0.00
1971	4	0	0	164.74	0.00	0.00	0.00	0.00	0.00	0.00
1971	5	0	0	100.83	0.00	0.00	0.11	0.11	0.11	0.11
1971	6	0	0	33.68	0.00	0.00	0.09	0.27	0.09	0.27
1971	7	0	0	0.52	0.00	0.00	0.00	0.00	0.00	0.00
1971	8	0	0	4.35	0.00	0.00	0.00	0.00	0.00	0.00
1971	9	0	0	12.01	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1971	10	0	0	14.36	0.00	0.00	0.00	0.00	0.00	0.00
1971	11	0	0	40.03	0.00	0.00	0.00	0.00	0.00	0.00
1971	12	0	0	48.58	0.00	0.00	0.00	0.00	0.00	0.00
1972	1	0	0	32.76	0.00	0.00	0.00	0.00	0.00	0.00
1972	2	0	0	33.37	0.00	0.00	0.00	0.00	0.00	0.00
1972	3	0	0	121.86	0.00	0.00	0.00	0.00	0.00	0.00
1972	4	0	0	49.43	0.00	0.00	0.00	0.00	0.00	0.00
1972	5	0	0	22.15	0.00	0.00	0.00	0.00	0.00	0.00
1972	6	0	0	30.77	0.00	0.00	0.57	1.84	0.57	1.84
1972	7	0	0	27.22	0.00	0.00	0.00	0.00	0.00	0.00
1972	8	0	0	37.55	0.00	0.00	0.04	0.10	0.04	0.10
1972	9	0	0	31.99	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
1972	10	16	9	75.90	5.83	7.68	0.00	0.00	5.83	7.69
1972	11	28	4	24.98	1.04	4.16	1.12	4.47	2.16	8.63
1972	12	0	0	26.52	0.00	0.00	0.04	0.15	0.04	0.15
1973	1	0	0	13.72	0.00	0.00	0.07	0.47	0.07	0.47
1973	2	0	0	9.90	0.00	0.00	0.00	0.00	0.00	0.00
1973	3	0	0	121.39	0.00	0.00	0.00	0.00	0.00	0.00
1973	4	0	0	93.65	0.00	0.00	0.00	0.00	0.00	0.00
1973	5	0	0	117.66	0.00	0.00	0.04	0.04	0.04	0.04
1973	6	0	0	27.36	0.00	0.00	0.00	0.00	0.00	0.00
1973	7	0	0	1.85	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	0.59	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1973	10	0	0	17.90	0.00	0.00	0.00	0.00	0.00	0.00
1973	11	0	0	91.30	0.00	0.00	0.00	0.00	0.00	0.00
1973	12	0	0	26.36	0.00	0.00	0.00	0.00	0.00	0.00
1974	1	0	0	45.95	0.00	0.00	0.00	0.00	0.00	0.00
1974	2	0	0	75.02	0.00	0.00	0.00	0.00	0.00	0.00
1974	3	0	0	121.40	0.00	0.00	0.00	0.00	0.00	0.00
1974	4	0	0	105.72	0.00	0.00	0.00	0.00	0.00	0.00
1974	5	0	0	99.70	0.00	0.00	0.03	0.03	0.03	0.03
1974	6	0	0	9.47	0.00	0.00	0.00	0.00	0.00	0.00
1974	7	0	0	0.78	0.00	0.00	0.00	0.00	0.00	0.00
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	25.49	0.00	0.00	0.00	0.00	0.00	0.00
1974	11	0	0	63.81	0.00	0.00	0.00	0.00	0.00	0.00
1974	12	0	0	18.11	0.00	0.00	0.00	0.00	0.00	0.00
1975	1	0	0	76.26	0.00	0.00	0.00	0.00	0.00	0.00
1975	2	0	0	68.20	0.00	0.00	0.00	0.00	0.00	0.00
1975	3	0	0	121.39	0.00	0.00	0.00	0.00	0.00	0.00
1975	4	0	0	107.05	0.00	0.00	0.00	0.00	0.00	0.00
1975	5	0	0	43.22	0.00	0.00	0.00	0.00	0.00	0.00
1975	6	0	0	4.55	0.00	0.00	0.00	0.00	0.00	0.00
1975	7	0	0	2.61	0.00	0.00	0.00	0.00	0.00	0.00
1975	8	0	0	8.63	0.00	0.00	0.05	0.57	0.05	0.57
1975	9	0	0	0.72	0.00	0.00	0.10	13.32	0.10	13.32

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1975	10	0	0	3.43	0.00	0.00	0.00	0.00	0.00	0.00
1975	11	0	0	52.83	0.00	0.00	0.00	0.00	0.00	0.00
1975	12	0	0	76.43	0.00	0.00	0.00	0.00	0.00	0.00
1976	1	0	0	61.12	0.00	0.00	0.00	0.00	0.00	0.00
1976	2	0	0	64.84	0.00	0.00	0.01	0.01	0.01	0.01
1976	3	0	0	121.84	0.00	0.00	0.00	0.00	0.00	0.00
1976	4	0	0	107.29	0.00	0.00	0.00	0.00	0.00	0.00
1976	5	0	0	10.01	0.00	0.00	0.00	0.00	0.00	0.00
1976	6	0	0	16.26	0.00	0.00	0.00	0.00	0.00	0.00
1976	7	0	0	18.06	0.00	0.00	0.00	0.00	0.00	0.00
1976	8	0	0	2.57	0.00	0.00	0.00	0.00	0.00	0.00
1976	9	0	0	2.28	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1976	10	0	0	63.60	0.00	0.00	0.00	0.00	0.00	0.00
1976	11	0	0	45.76	0.00	0.00	0.00	0.00	0.00	0.00
1976	12	0	0	22.45	0.00	0.00	0.00	0.00	0.00	0.00
1977	1	0	0	1.53	0.00	0.00	0.00	0.00	0.00	0.00
1977	2	0	0	52.36	0.00	0.00	0.00	0.00	0.00	0.00
1977	3	0	0	121.36	0.00	0.00	0.00	0.00	0.00	0.00
1977	4	0	0	127.94	0.00	0.00	0.00	0.00	0.00	0.00
1977	5	0	0	43.40	0.00	0.00	0.04	0.10	0.04	0.10
1977	6	0	0	60.07	0.00	0.00	0.00	0.00	0.00	0.00
1977	7	0	0	18.11	0.00	0.00	0.00	0.00	0.00	0.00
1977	8	0	0	7.26	0.00	0.00	0.00	0.00	0.00	0.00
1977	9	0	0	0.12	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1977	10	0	0	65.23	0.00	0.00	0.00	0.00	0.00	0.00
1977	11	0	0	18.83	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	6.76	0.00	0.00	0.00	0.00	0.00	0.00
1978	2	0	0	24.97	0.00	0.00	0.00	0.00	0.00	0.00
1978	3	0	0	121.39	0.00	0.00	0.00	0.00	0.00	0.00
1978	4	0	0	99.44	0.00	0.00	0.00	0.00	0.00	0.00
1978	5	0	0	17.70	0.00	0.00	0.00	0.00	0.00	0.00
1978	6	0	0	20.33	0.00	0.00	0.00	0.00	0.00	0.00
1978	7	0	0	1.08	0.00	0.00	0.00	0.00	0.00	0.00
1978	8	0	0	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	8.69	0.00	0.00	0.00	0.00	0.00	0.00
1978	11	0	0	24.44	0.00	0.00	0.00	0.00	0.00	0.00
1978	12	0	0	17.69	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	39.59	0.00	0.00	0.00	0.00	0.00	0.00
1979	3	0	0	121.40	0.00	0.00	0.00	0.00	0.00	0.00
1979	4	0	0	105.82	0.00	0.00	0.00	0.00	0.00	0.00
1979	5	0	0	0.26	0.00	0.00	0.00	0.00	0.00	0.00
1979	6	0	0	153.68	0.00	0.00	2.05	1.34	2.05	1.34
1979	7	0	0	21.81	0.00	0.00	0.00	0.00	0.00	0.00
1979	8	0	0	7.53	0.00	0.00	0.02	0.29	0.02	0.29
1979	9	0	0	0.34	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	4.34	0.00	0.00	0.00	0.00	0.00	0.00
1979	12	0	0	19.45	0.00	0.00	0.00	0.00	0.00	0.00
1980	1	0	0	36.42	0.00	0.00	0.00	0.00	0.00	0.00
1980	2	0	0	11.23	0.00	0.00	0.00	0.00	0.00	0.00
1980	3	0	0	121.86	0.00	0.00	0.00	0.00	0.00	0.00
1980	4	0	0	12.44	0.00	0.00	0.00	0.00	0.00	0.00
1980	5	0	0	97.76	0.00	0.00	0.00	0.00	0.00	0.00
1980	6	0	0	129.23	0.00	0.00	0.87	0.67	0.87	0.67
1980	7	0	0	14.41	0.00	0.00	0.00	0.00	0.00	0.00
1980	8	0	0	7.14	0.00	0.00	0.02	0.31	0.02	0.31
1980	9	0	0	2.73	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1980	10	30	14	75.72	10.77	14.23	0.02	0.03	10.80	14.26
1980	11	30	4	28.50	0.47	1.66	1.43	5.03	1.91	6.69
1980	12	31	7	37.56	3.45	9.20	0.07	0.18	3.52	9.38
1981	1	31	19	67.00	6.70	10.00	0.00	0.00	6.70	10.00
1981	2	28	3	28.25	1.53	5.40	0.09	0.32	1.61	5.72
1981	3	0	0	121.40	0.00	0.00	0.00	0.00	0.00	0.00
1981	4	0	0	148.22	0.00	0.00	0.02	0.01	0.02	0.01
1981	5	0	0	149.42	0.00	0.00	0.18	0.12	0.18	0.12
1981	6	0	0	69.87	0.00	0.00	0.55	0.78	0.55	0.78
1981	7	7	0	61.64	0.00	0.00	0.00	0.00	0.00	0.00
1981	8	31	0	1.97	0.00	0.00	0.00	0.00	0.00	0.00
1981	9	30	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
1981	10	31	25	100.78	21.52	21.36	0.00	0.00	21.53	21.36
1981	11	30	12	51.05	10.50	20.56	1.21	2.37	11.71	22.93
1981	12	31	24	88.59	14.78	16.69	0.04	0.04	14.82	16.73
1982	1	31	14	67.03	4.87	7.27	0.06	0.09	4.93	7.36
1982	2	28	1	21.17	0.11	0.51	0.00	0.00	0.11	0.51
1982	3	0	0	121.40	0.00	0.00	0.00	0.00	0.00	0.00
1982	4	0	0	26.92	0.00	0.00	0.00	0.00	0.00	0.00
1982	5	0	0	112.75	0.00	0.00	0.03	0.02	0.03	0.02
1982	6	0	0	19.39	0.00	0.00	0.09	0.46	0.09	0.46
1982	7	0	0	4.84	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	5.11	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	13.12	0.00	0.00	0.00	0.00	0.00	0.00
1982	11	0	0	44.63	0.00	0.00	0.00	0.00	0.00	0.00
1982	12	0	0	46.81	0.00	0.00	0.00	0.00	0.00	0.00
1983	1	0	0	21.76	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	121.38	0.00	0.00	0.00	0.00	0.00	0.00
1983	4	0	0	40.09	0.00	0.00	0.00	0.00	0.00	0.00
1983	5	0	0	212.19	0.00	0.00	0.06	0.03	0.06	0.03
1983	6	0	0	27.66	0.00	0.00	0.00	0.00	0.00	0.00
1983	7	0	0	33.64	0.00	0.00	0.00	0.00	0.00	0.00
1983	8	0	0	5.58	0.00	0.00	0.00	0.00	0.00	0.00
1983	9	0	0	6.16	0.00	0.00	0.06	0.97	0.06	0.97

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	19.75	0.00	0.00	0.00	0.00	0.00	0.00
1983	12	0	0	16.85	0.00	0.00	0.00	0.00	0.00	0.00
1984	1	0	0	29.08	0.00	0.00	0.00	0.00	0.00	0.00
1984	2	0	0	31.84	0.00	0.00	0.00	0.00	0.00	0.00
1984	3	0	0	121.84	0.00	0.00	0.00	0.00	0.00	0.00
1984	4	0	0	52.53	0.00	0.00	0.00	0.00	0.00	0.00
1984	5	0	0	120.06	0.00	0.00	0.00	0.00	0.00	0.00
1984	6	0	0	51.17	0.00	0.00	0.13	0.26	0.13	0.26
1984	7	0	0	1.04	0.00	0.00	0.00	0.00	0.00	0.00
1984	8	0	0	16.14	0.00	0.00	0.00	0.00	0.00	0.00
1984	9	0	0	14.24	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	51.77	0.00	0.00	0.00	0.00	0.00	0.00
1984	11	0	0	57.20	0.00	0.00	0.00	0.00	0.00	0.00
1984	12	0	0	47.30	0.00	0.00	0.00	0.00	0.00	0.00
1985	1	0	0	57.29	0.00	0.00	0.02	0.03	0.02	0.03
1985	2	0	0	88.46	0.00	0.00	0.00	0.00	0.00	0.00
1985	3	0	0	121.40	0.00	0.00	0.00	0.00	0.00	0.00
1985	4	0	0	23.60	0.00	0.00	0.00	0.00	0.00	0.00
1985	5	0	0	111.30	0.00	0.00	0.00	0.00	0.00	0.00
1985	6	0	0	100.68	0.00	0.00	2.56	2.54	2.56	2.54
1985	7	0	0	5.01	0.00	0.00	0.00	0.00	0.00	0.00
1985	8	0	0	2.49	0.00	0.00	0.31	12.47	0.31	12.47
1985	9	0	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	7.92	0.00	0.00	0.00	0.00	0.00	0.00
1985	11	0	0	33.85	0.00	0.00	0.00	0.00	0.00	0.00
1985	12	0	0	18.06	0.00	0.00	0.00	0.00	0.00	0.00
1986	1	0	0	11.79	0.00	0.00	0.00	0.00	0.00	0.00
1986	2	0	0	46.38	0.00	0.00	0.00	0.00	0.00	0.00
1986	3	0	0	121.39	0.00	0.00	0.00	0.00	0.00	0.00
1986	4	0	0	142.53	0.00	0.00	0.00	0.00	0.00	0.00
1986	5	0	0	133.37	0.00	0.00	0.07	0.05	0.07	0.05
1986	6	0	0	18.70	0.00	0.00	0.00	0.00	0.00	0.00
1986	7	0	0	3.15	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	5.44	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1986	10	0	0	29.88	0.00	0.00	0.00	0.00	0.00	0.00
1986	11	0	0	21.74	0.00	0.00	0.00	0.00	0.00	0.00
1986	12	0	0	37.98	0.00	0.00	0.00	0.01	0.00	0.01
1987	1	0	0	11.49	0.00	0.00	0.00	0.00	0.00	0.00
1987	2	0	0	20.09	0.00	0.00	0.00	0.00	0.00	0.00
1987	3	0	0	121.39	0.00	0.00	0.00	0.00	0.00	0.00
1987	4	0	0	126.96	0.00	0.00	0.02	0.02	0.02	0.02
1987	5	0	0	111.78	0.00	0.00	0.00	0.00	0.00	0.00
1987	6	0	0	110.46	0.00	0.00	0.15	0.14	0.15	0.14
1987	7	0	0	13.39	0.00	0.00	0.00	0.00	0.00	0.00
1987	8	11	8	46.62	12.52	26.87	0.00	0.00	12.52	26.87
1987	9	30	5	12.15	4.13	34.01	0.00	0.00	4.13	34.01

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	17.56	0.00	0.00	0.00	0.00	0.00	0.00
1987	11	1	0	2.45	0.00	0.00	0.18	7.19	0.18	7.19
1987	12	0	0	34.15	0.00	0.00	0.00	0.00	0.00	0.00
1988	1	0	0	9.09	0.00	0.00	0.00	0.00	0.00	0.00
1988	2	0	0	11.43	0.00	0.00	0.00	0.00	0.00	0.00
1988	3	0	0	121.86	0.00	0.00	0.00	0.00	0.00	0.00
1988	4	0	0	128.87	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	56.20	0.00	0.00	0.21	0.38	0.21	0.38
1988	7	0	0	6.75	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	0	0	45.36	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
1988	10	0	0	120.06	0.00	0.00	0.00	0.00	0.00	0.00
1988	11	0	0	27.42	0.00	0.00	0.00	0.00	0.00	0.00
1988	12	0	0	47.43	0.00	0.00	0.06	0.12	0.06	0.12
1989	1	0	0	52.87	0.00	0.00	0.06	0.11	0.06	0.11
1989	2	15	8	85.04	6.00	7.06	0.08	0.10	6.09	7.16
1989	3	0	0	121.40	0.00	0.00	0.00	0.00	0.00	0.00
1989	4	0	0	37.11	0.00	0.00	0.00	0.00	0.00	0.00
1989	5	0	0	129.52	0.00	0.00	0.00	0.00	0.00	0.00
1989	6	0	0	118.76	0.00	0.00	5.40	4.54	5.40	4.54
1989	7	0	0	29.70	0.00	0.00	0.00	0.00	0.00	0.00
1989	8	0	0	4.99	0.00	0.00	0.00	0.00	0.00	0.00
1989	9	17	0	0.85	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1989	10	7	0	14.06	0.00	0.00	0.00	0.00	0.00	0.00
1989	11	0	0	87.11	0.00	0.00	0.06	0.07	0.06	0.07
1989	12	0	0	22.66	0.00	0.00	0.00	0.00	0.00	0.00
1990	1	0	0	57.89	0.00	0.00	0.14	0.25	0.14	0.25
1990	2	0	0	11.81	0.00	0.00	0.00	0.03	0.00	0.03
1990	3	0	0	121.37	0.00	0.00	0.00	0.00	0.00	0.00
1990	4	0	0	90.91	0.00	0.00	0.00	0.00	0.00	0.00
1990	5	0	0	47.30	0.00	0.00	0.00	0.00	0.00	0.00
1990	6	0	0	55.95	0.00	0.00	1.40	2.50	1.40	2.50
1990	7	0	0	5.06	0.00	0.00	0.06	1.11	0.06	1.11
1990	8	0	0	2.49	0.00	0.00	0.00	0.00	0.00	0.00
1990	9	0	0	19.20	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1990	10	0	0	14.27	0.00	0.00	0.00	0.00	0.00	0.00
1990	11	0	0	76.38	0.00	0.00	0.00	0.00	0.00	0.00
1990	12	0	0	78.23	0.00	0.00	0.00	0.00	0.00	0.00
1991	1	0	0	4.83	0.00	0.00	0.00	0.00	0.00	0.00
1991	2	0	0	26.57	0.00	0.00	0.00	0.00	0.00	0.00
1991	3	0	0	121.37	0.00	0.00	0.00	0.00	0.00	0.00
1991	4	0	0	5.32	0.00	0.00	0.00	0.00	0.00	0.00
1991	5	0	0	49.90	0.00	0.00	0.00	0.00	0.00	0.00
1991	6	0	0	15.43	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	8.07	0.00	0.00	0.00	0.00	0.00	0.00
1991	9	0	0	4.96	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	11.75	0.00	0.00	0.00	0.00	0.00	0.00
1991	11	0	0	42.86	0.00	0.00	0.00	0.00	0.00	0.00
1991	12	0	0	34.46	0.00	0.00	0.00	0.00	0.00	0.00
1992	1	0	0	19.58	0.00	0.00	0.00	0.00	0.00	0.00
1992	2	0	0	22.36	0.00	0.00	0.00	0.00	0.00	0.00
1992	3	0	0	121.85	0.00	0.00	0.00	0.00	0.00	0.00
1992	4	0	0	7.73	0.00	0.00	0.00	0.00	0.00	0.00
1992	5	0	0	204.58	0.00	0.00	0.39	0.19	0.39	0.19
1992	6	0	0	20.81	0.00	0.00	0.06	0.28	0.06	0.28
1992	7	0	0	17.51	0.00	0.00	0.00	0.00	0.00	0.00
1992	8	0	0	6.20	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	50.78	0.00	0.00	0.00	0.00	0.00	0.00
1992	11	0	0	19.87	0.00	0.00	0.00	0.00	0.00	0.00
1992	12	0	0	38.81	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	7.42	0.00	0.00	0.00	0.00	0.00	0.00
1993	3	0	0	121.37	0.00	0.00	0.00	0.00	0.00	0.00
1993	4	0	0	55.35	0.00	0.00	0.00	0.00	0.00	0.00
1993	5	0	0	184.38	0.00	0.00	0.01	0.00	0.01	0.00
1993	6	0	0	39.11	0.00	0.00	0.00	0.00	0.00	0.00
1993	7	0	0	43.84	0.00	0.00	0.00	0.00	0.00	0.00
1993	8	10	0	40.50	0.00	0.00	0.00	0.00	0.00	0.00
1993	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
1993	10	8	0	3.05	0.00	0.00	0.00	0.00	0.00	0.00
1993	11	0	0	35.03	0.00	0.00	0.00	0.00	0.00	0.00
1993	12	0	0	46.48	0.00	0.00	0.00	0.00	0.00	0.00
1994	1	0	0	7.10	0.00	0.00	0.00	0.00	0.00	0.00
1994	2	0	0	8.85	0.00	0.00	0.00	0.00	0.00	0.00
1994	3	0	0	121.36	0.00	0.00	0.00	0.00	0.00	0.00
1994	4	0	0	57.86	0.00	0.00	0.00	0.00	0.00	0.00
1994	5	0	0	97.94	0.00	0.00	0.00	0.00	0.00	0.00
1994	6	0	0	18.45	0.00	0.00	0.01	0.06	0.01	0.06
1994	7	0	0	16.61	0.00	0.00	0.00	0.00	0.00	0.00
1994	8	0	0	0.17	0.00	0.00	0.00	0.00	0.00	0.00
1994	9	0	0	0.55	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1994	10	0	0	7.58	0.00	0.00	0.00	0.00	0.00	0.00
1994	11	0	0	10.49	0.00	0.00	0.00	0.00	0.00	0.00
1994	12	0	0	0.29	0.00	0.00	0.00	0.00	0.00	0.00
1995	1	0	0	3.47	0.00	0.00	0.00	0.00	0.00	0.00
1995	2	0	0	7.76	0.00	0.00	0.00	0.00	0.00	0.00
1995	3	0	0	121.37	0.00	0.00	0.00	0.00	0.00	0.00
1995	4	0	0	68.97	0.00	0.00	0.00	0.00	0.00	0.00
1995	5	0	0	92.49	0.00	0.00	0.00	0.00	0.00	0.00
1995	6	0	0	23.72	0.00	0.00	0.53	2.24	0.53	2.24
1995	7	0	0	12.04	0.00	0.00	0.00	0.00	0.00	0.00
1995	8	0	0	1.91	0.00	0.00	0.00	0.00	0.00	0.00
1995	9	0	0	10.26	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1995	10	0	0	0.83	0.00	0.00	0.00	0.00	0.00	0.00
1995	11	0	0	45.09	0.00	0.00	0.00	0.00	0.00	0.00
1995	12	0	0	32.15	0.00	0.00	0.00	0.00	0.00	0.00
1996	1	0	0	12.74	0.00	0.00	0.00	0.00	0.00	0.00
1996	2	0	0	73.66	0.00	0.00	0.00	0.00	0.00	0.00
1996	3	0	0	121.87	0.00	0.00	0.00	0.00	0.00	0.00
1996	4	0	0	72.49	0.00	0.00	0.00	0.00	0.00	0.00
1996	5	0	0	34.91	0.00	0.00	0.00	0.00	0.00	0.00
1996	6	0	0	2.99	0.00	0.00	0.00	0.00	0.00	0.00
1996	7	0	0	55.30	0.00	0.00	0.00	0.00	0.00	0.00
1996	8	0	0	13.33	0.00	0.00	0.00	0.00	0.00	0.00
1996	9	0	0	28.57	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1996	10	0	0	15.91	0.00	0.00	0.00	0.00	0.00	0.00
1996	11	0	0	65.60	0.00	0.00	0.00	0.00	0.00	0.00
1996	12	0	0	71.47	0.00	0.00	0.00	0.00	0.00	0.00
1997	1	0	0	41.67	0.00	0.00	0.00	0.00	0.00	0.00
1997	2	0	0	44.82	0.00	0.00	0.49	1.09	0.49	1.09
1997	3	0	0	121.38	0.00	0.00	0.00	0.00	0.00	0.00
1997	4	0	0	25.47	0.00	0.00	0.00	0.00	0.00	0.00
1997	5	0	0	18.10	0.00	0.00	0.00	0.00	0.00	0.00
1997	6	0	0	31.64	0.00	0.00	0.58	1.83	0.58	1.83
1997	7	0	0	12.22	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	6.10	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1997	10	0	0	46.52	0.00	0.00	0.00	0.00	0.00	0.00
1997	11	0	0	16.09	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	2.14	0.00	0.00	0.00	0.00	0.00	0.00
1998	2	0	0	1.97	0.00	0.00	0.00	0.00	0.00	0.00
1998	3	0	0	121.39	0.00	0.00	0.00	0.00	0.00	0.00
1998	4	0	0	90.49	0.00	0.00	0.00	0.00	0.00	0.00
1998	5	0	0	134.03	0.00	0.00	0.39	0.29	0.39	0.29
1998	6	0	0	149.00	0.00	0.00	2.11	1.42	2.11	1.42
1998	7	2	1	24.11	0.51	2.10	0.00	0.00	0.51	2.10
1998	8	4	0	8.62	0.00	0.00	0.43	4.99	0.43	4.99
1998	9	22	1	1.80	0.02	1.27	0.00	0.00	0.02	1.27

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	24.94	0.00	0.00	0.00	0.01	0.00	0.01
1998	11	0	0	18.37	0.00	0.00	0.00	0.00	0.00	0.00
1998	12	0	0	30.94	0.00	0.00	0.00	0.00	0.00	0.00
1999	1	0	0	10.20	0.00	0.00	0.00	0.00	0.00	0.00
1999	2	0	0	45.38	0.00	0.00	0.00	0.00	0.00	0.00
1999	3	0	0	121.39	0.00	0.00	0.00	0.00	0.00	0.00
1999	4	0	0	122.38	0.00	0.00	0.00	0.00	0.00	0.00
1999	5	0	0	89.83	0.00	0.00	0.24	0.27	0.24	0.27
1999	6	0	0	6.43	0.00	0.00	0.00	0.00	0.00	0.00
1999	7	0	0	7.71	0.00	0.00	0.00	0.00	0.00	0.00
1999	8	0	0	13.62	0.00	0.00	0.00	0.01	0.00	0.01
1999	9	0	0	0.80	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1999	10	0	0	0.42	0.00	0.00	0.00	0.00	0.00	0.00
1999	11	0	0	37.32	0.00	0.00	0.00	0.00	0.00	0.00
1999	12	0	0	47.19	0.00	0.00	0.00	0.00	0.00	0.00
2000	1	0	0	59.30	0.00	0.00	0.00	0.00	0.00	0.00
2000	2	0	0	64.94	0.00	0.00	0.00	0.00	0.00	0.00
2000	3	0	0	121.87	0.00	0.00	0.00	0.00	0.00	0.00
2000	4	0	0	72.30	0.00	0.00	0.00	0.00	0.00	0.00
2000	5	0	0	184.78	0.00	0.00	0.17	0.09	0.17	0.09
2000	6	0	0	151.28	0.00	0.00	1.03	0.68	1.03	0.68
2000	7	0	0	1.90	0.00	0.00	0.00	0.00	0.00	0.00
2000	8	20	14	48.74	29.70	60.93	0.00	0.00	29.70	60.93
2000	9	30	2	4.07	0.62	15.30	0.00	0.00	0.62	15.30

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	42.89	3.19	7.44	0.00	0.00	3.19	7.44
2000	11	30	25	106.61	23.07	21.64	0.41	0.38	23.48	22.03
2000	12	31	14	78.55	12.44	15.83	0.16	0.20	12.60	16.04
2001	1	31	15	66.66	6.96	10.44	0.07	0.10	7.03	10.54
2001	2	28	25	96.06	27.14	28.25	0.00	0.00	27.14	28.25
2001	3	0	0	121.46	0.00	0.00	0.00	0.00	0.00	0.00
2001	4	0	0	133.23	0.00	0.00	0.00	0.00	0.00	0.00
2001	5	0	0	143.29	0.00	0.00	0.76	0.53	0.76	0.53
2001	6	0	0	43.21	0.00	0.00	0.02	0.05	0.02	0.05
2001	7	0	0	10.66	0.00	0.00	0.00	0.00	0.00	0.00
2001	8	0	0	23.17	0.00	0.00	0.00	0.00	0.00	0.00
2001	9	0	0	5.47	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
2001	10	0	0	10.03	0.00	0.00	0.00	0.00	0.00	0.00
2001	11	0	0	41.25	0.00	0.00	0.00	0.00	0.00	0.00
2001	12	0	0	41.61	0.00	0.00	0.01	0.01	0.01	0.01
2002	1	0	0	28.61	0.00	0.00	0.00	0.00	0.00	0.00
2002	2	0	0	30.41	0.00	0.00	0.00	0.00	0.00	0.00
2002	3	0	0	121.39	0.00	0.00	0.00	0.00	0.00	0.00
2002	4	0	0	98.94	0.00	0.00	0.00	0.00	0.00	0.00
2002	5	0	0	156.23	0.00	0.00	0.03	0.02	0.03	0.02
2002	6	0	0	64.44	0.00	0.00	0.12	0.19	0.12	0.19
2002	7	0	0	12.07	0.00	0.00	0.00	0.00	0.00	0.00
2002	8	0	0	12.93	0.00	0.00	0.00	0.00	0.00	0.00
2002	9	0	0	10.54	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
2002	10	0	0	11.78	0.00	0.00	0.00	0.00	0.00	0.00
2002	11	0	0	30.62	0.00	0.00	0.00	0.00	0.00	0.00
2002	12	0	0	7.49	0.00	0.00	0.00	0.00	0.00	0.00
2003	1	0	0	45.67	0.00	0.00	0.00	0.00	0.00	0.00
2003	2	0	0	56.62	0.00	0.00	0.00	0.00	0.00	0.00
2003	3	0	0	121.44	0.00	0.00	0.00	0.00	0.00	0.00
2003	4	0	0	76.86	0.00	0.00	0.00	0.00	0.00	0.00
2003	5	0	0	55.57	0.00	0.00	0.00	0.00	0.00	0.00
2003	6	0	0	15.45	0.00	0.00	0.00	0.00	0.00	0.00
2003	7	0	0	14.02	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	1.20	0.00	0.00	0.00	0.00	0.00	0.00

Year	Mon	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
2003	10	0	0	41.00	0.00	0.00	0.00	0.00	0.00	0.00
2003	11	0	0	32.59	0.00	0.00	0.00	0.00	0.00	0.00
2003	12	0	0	28.45	0.00	0.00	0.01	0.02	0.01	0.02
2004	1	0	0	45.38	0.00	0.00	0.00	0.00	0.00	0.00
2004	2	0	0	17.45	0.00	0.00	0.00	0.00	0.00	0.00
2004	3	0	0	121.86	0.00	0.00	0.00	0.00	0.00	0.00
2004	4	0	0	89.20	0.00	0.00	0.00	0.00	0.00	0.00
2004	5	0	0	197.84	0.00	0.00	0.76	0.39	0.76	0.39
2004	6	0	0	51.65	0.00	0.00	0.04	0.07	0.04	0.07
2004	7	0	0	37.23	0.00	0.00	0.03	0.09	0.03	0.09
2004	8	2	0	0.23	0.00	0.00	0.16	70.13	0.16	70.13
2004	9	0	0	0.30	0.00	0.00	0.15	49.89	0.15	49.89

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

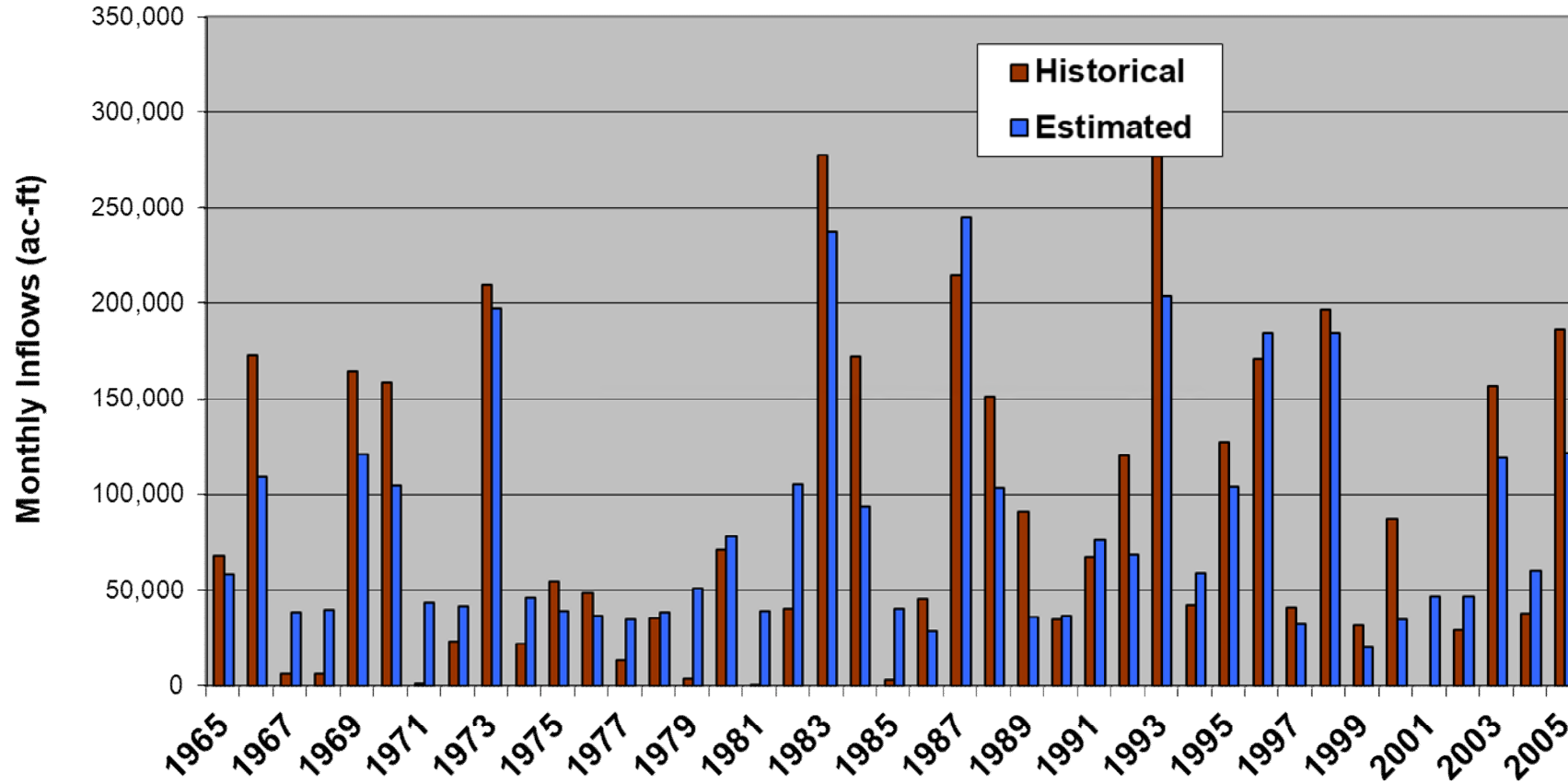
Run:
 SFWMM v6.7.4 - April 1, 2021 DPA TTFF HAB Final LOK Stage 14.44

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

Wat_Year	# Days SSM	# Days SSMwC.B.	Supplem. Volume	SSM Cutback Volume	% SSM Cutback	Convey. Cutback Volume	% Cutback Convey.	Total Cutback	% Total Cutback
1966	0	0	340.31	0.00	0.00	0.01	0.00	0.01	0.00
1967	0	0	759.46	0.00	0.00	3.70	0.49	3.70	0.49
1968	0	0	514.60	0.00	0.00	0.01	0.00	0.01	0.00
1969	0	0	447.33	0.00	0.00	0.04	0.01	0.04	0.01
1970	0	0	467.83	0.00	0.00	1.38	0.29	1.38	0.29
1971	31	12	736.32	9.48	1.29	0.23	0.03	9.71	1.32
1972	0	0	490.07	0.00	0.00	0.61	0.12	0.61	0.12
1973	44	13	513.81	6.87	1.34	1.26	0.25	8.14	1.58
1974	0	0	594.60	0.00	0.00	0.03	0.00	0.03	0.00
1975	0	0	540.04	0.00	0.00	0.15	0.03	0.15	0.03
1976	0	0	536.96	0.00	0.00	0.01	0.00	0.01	0.00
1977	0	0	563.97	0.00	0.00	0.04	0.01	0.04	0.01
1978	0	0	378.77	0.00	0.00	0.00	0.00	0.00	0.00
1979	0	0	501.24	0.00	0.00	2.07	0.41	2.07	0.41
1980	0	0	469.80	0.00	0.00	0.89	0.19	0.89	0.19
1981	218	47	791.44	22.92	2.90	2.36	0.30	25.29	3.19
1982	151	76	621.26	51.78	8.34	1.42	0.23	53.21	8.56
1983	0	0	573.31	0.00	0.00	0.12	0.02	0.12	0.02
1984	0	0	477.81	0.00	0.00	0.13	0.03	0.13	0.03
1985	0	0	666.81	0.00	0.00	2.89	0.43	2.89	0.43
1986	0	0	542.58	0.00	0.00	0.07	0.01	0.07	0.01
1987	41	13	663.94	16.66	2.51	0.18	0.03	16.84	2.54
1988	32	0	543.10	0.00	0.00	0.39	0.07	0.39	0.07
1989	32	8	775.15	6.00	0.77	5.60	0.72	11.60	1.50
1990	7	0	535.82	0.00	0.00	1.67	0.31	1.67	0.31
1991	0	0	405.33	0.00	0.00	0.00	0.00	0.00	0.00
1992	0	0	510.58	0.00	0.00	0.45	0.09	0.45	0.09
1993	40	0	604.37	0.00	0.00	0.01	0.00	0.01	0.00
1994	8	0	413.47	0.00	0.00	0.01	0.00	0.01	0.00
1995	0	0	360.37	0.00	0.00	0.53	0.15	0.53	0.15
1996	0	0	493.93	0.00	0.00	0.00	0.00	0.00	0.00
1997	0	0	456.31	0.00	0.00	1.07	0.23	1.07	0.23
1998	28	2	596.16	0.53	0.09	2.93	0.49	3.46	0.58
1999	0	0	491.98	0.00	0.00	0.24	0.05	0.24	0.05
2000	50	16	794.11	30.32	3.82	1.20	0.15	31.52	3.97
2001	151	85	871.26	72.80	8.36	1.42	0.16	74.22	8.52
2002	0	0	628.44	0.00	0.00	0.15	0.02	0.15	0.02
2003	0	0	436.75	0.00	0.00	0.00	0.00	0.00	0.00
2004	2	0	663.19	0.00	0.00	1.15	0.17	1.15	0.17
2005	0	0	526.63	0.00	0.00	0.08	0.02	0.08	0.02

April 2021 Dynamic Position Analysis

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



April 2021 Dynamic Position Analysis

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

