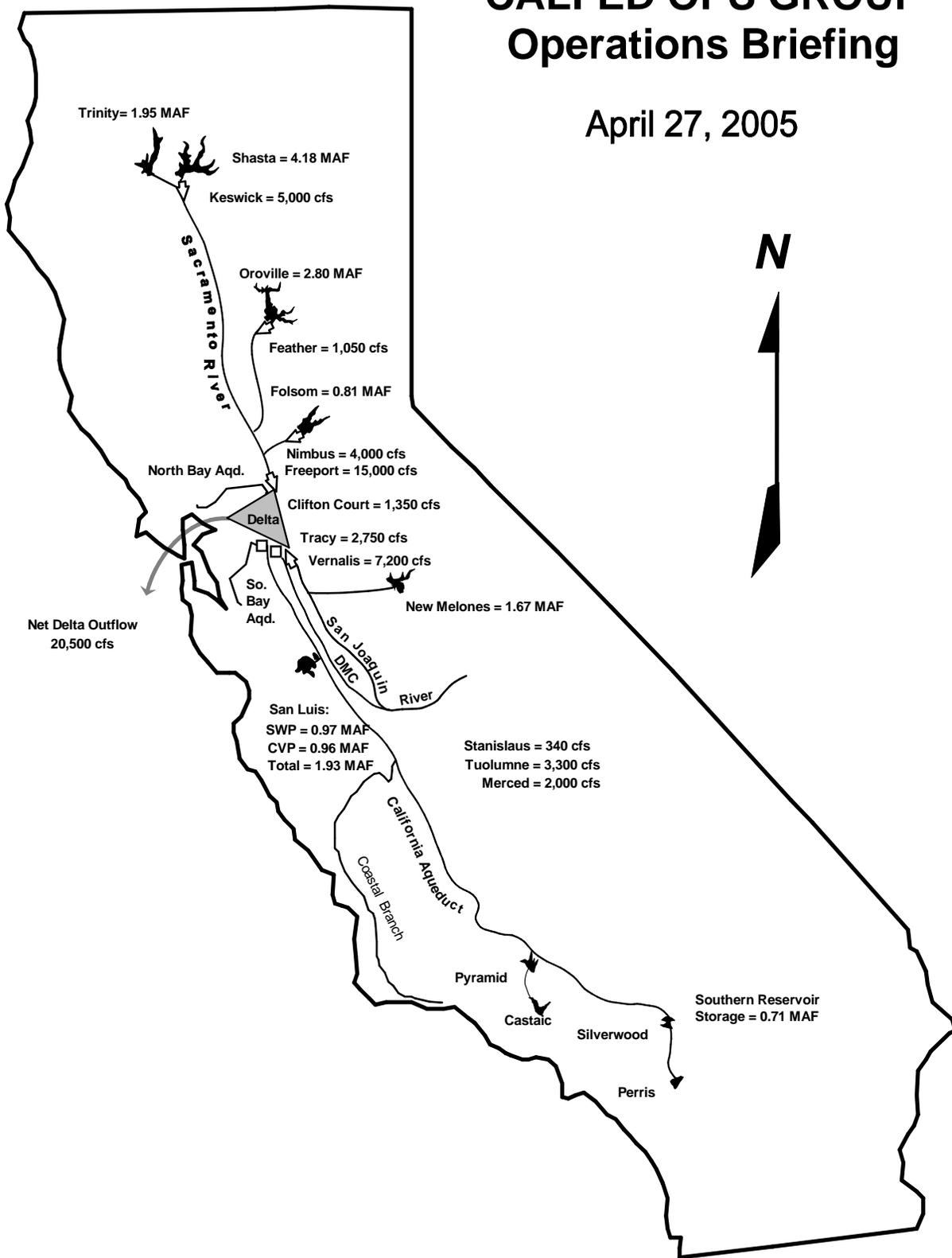


CALFED OPS GROUP Operations Briefing

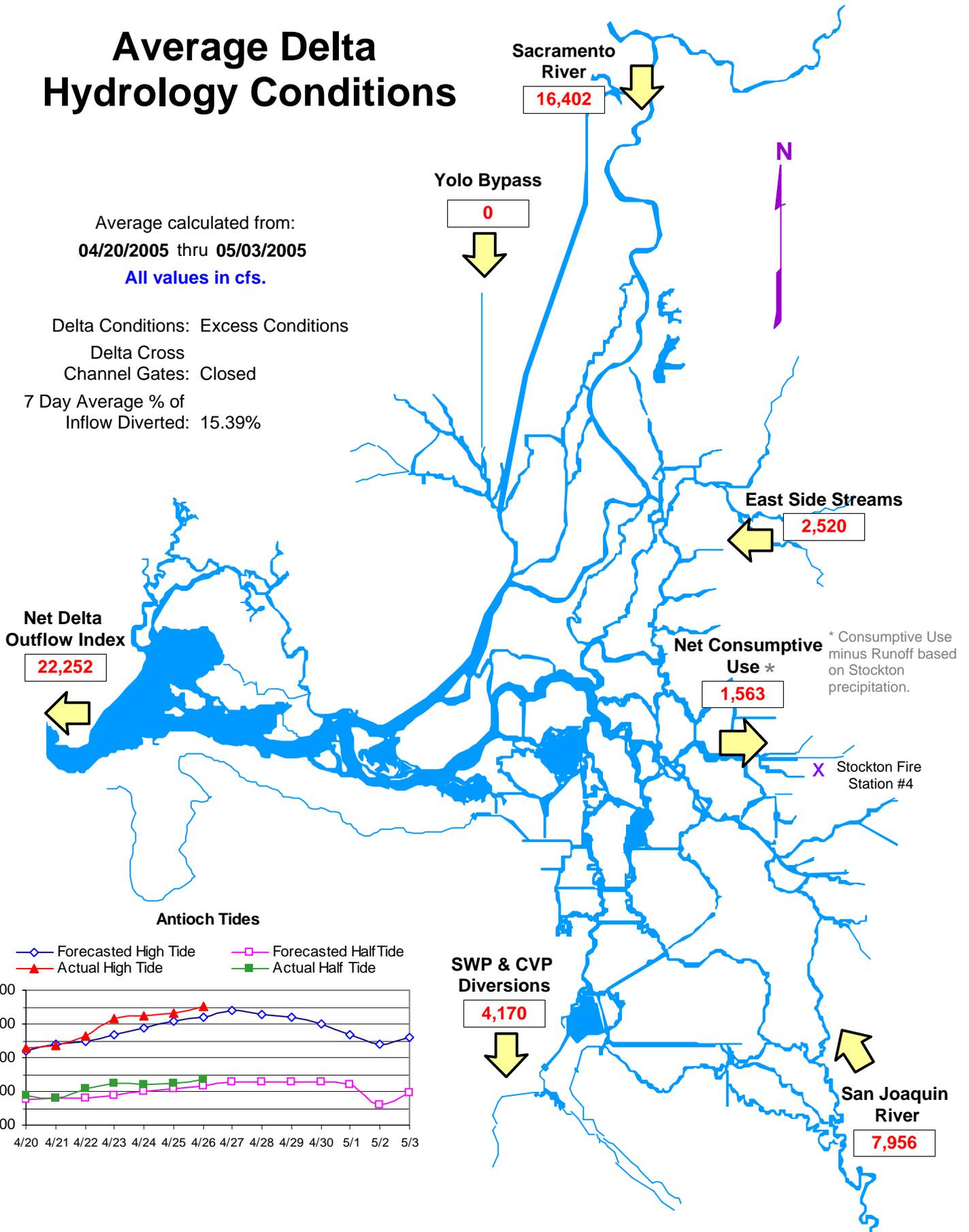
April 27, 2005



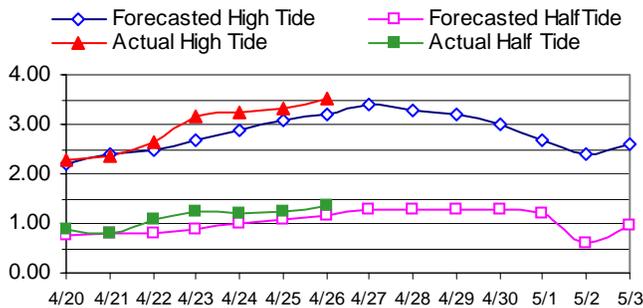
Average Delta Hydrology Conditions

Average calculated from:
04/20/2005 thru **05/03/2005**
 All values in cfs.

Delta Conditions: Excess Conditions
 Delta Cross Channel Gates: Closed
 7 Day Average % of Inflow Diverted: 15.39%

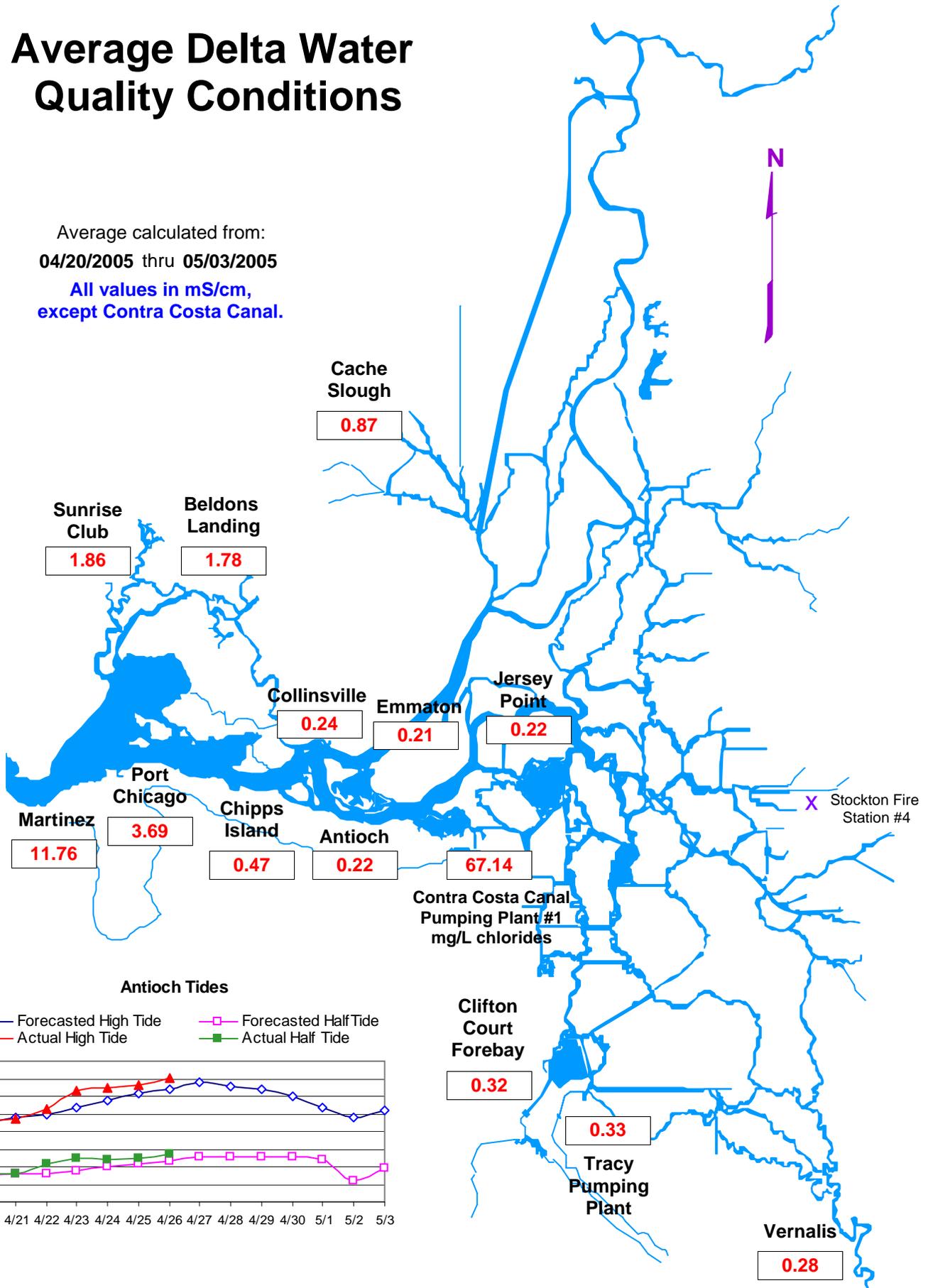


Antioch Tides

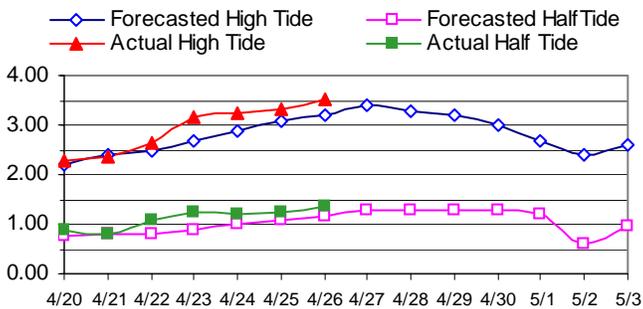


Average Delta Water Quality Conditions

Average calculated from:
04/20/2005 thru **05/03/2005**
 All values in mS/cm,
 except Contra Costa Canal.



Antioch Tides



DRAFT

Bay-Delta Standards

Contained in D-1641

DRAFT

CRITERIA	Apr 2005	May 2005	Jun 2005	
FLOW/OPERATIONAL				
<ul style="list-style-type: none"> • Fish and Wildlife SWP/CVP Export Limits Export/Inflow Ratio Minimum Outflow - mon. - 7 day avg. Habitat Protection Outflow, X2 River Flows: @ Rio Vista - min. mon. avg. - 7 day average @ Vernalis: Base -min. mon. avg. - 7 day average Pulse objective - mon. avg. Delta Cross Channel Gates 		Greater of 1,500 cfs or 100% of the 3-day avg. flow at ↓		
		35 % of Delta Inflow		
		7,100 - 11,400 cfs or X2 days (through June)		
		↑ 18 Days @ Port Chicago (days have been met) 30 Days @ Chipps		
		3420 cfs		3420 cfs
		2736 cfs		2736 cfs
		7020 cfs, per VAMP		
		Closed		14 days per Op's Group
	WATER QUALITY STANDARDS			
	<ul style="list-style-type: none"> • Municipal and Industrial All Export Locations Contra Costa Canal 		CI <= 250 mg/l	
		CI <= 150 mg/l for 175 days for Below Normal Year Type		
<ul style="list-style-type: none"> • Agriculture Western/Interior Delta Southern Delta 		Max. 14-day average EC mmhos/cm: 0.45 mS/cm for Wet year		
		30 day running avg. EC <= 0.7 mS/cm		
<ul style="list-style-type: none"> • Fish and Wildlife San Joaquin River Salinity Suisun Marsh Salinity 		14-day avg; 0.44 EC		
		11.0 mhtEC		

Water Year Classification: Above Normal (Based on forecast, 4/1/2005)

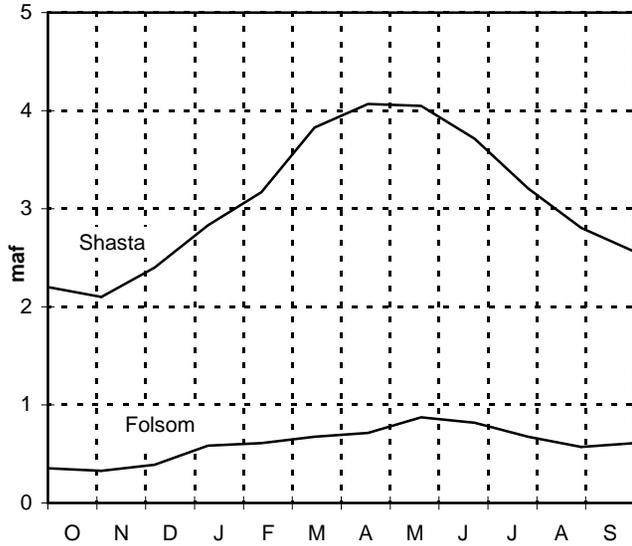
SRI (40-30-30 @ 50%) = 7.3 MAF
 SJV (60-20-20 @ 75%) = 4.1 MAF

SWP & CVP WY 2005 Forecasted Operations.

(based on 4/1/05 water supply update)

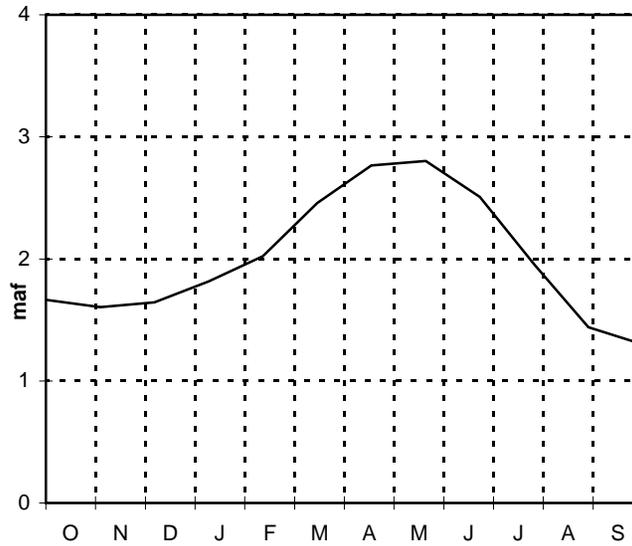
Upstream CVP storage

— 90% Excd.



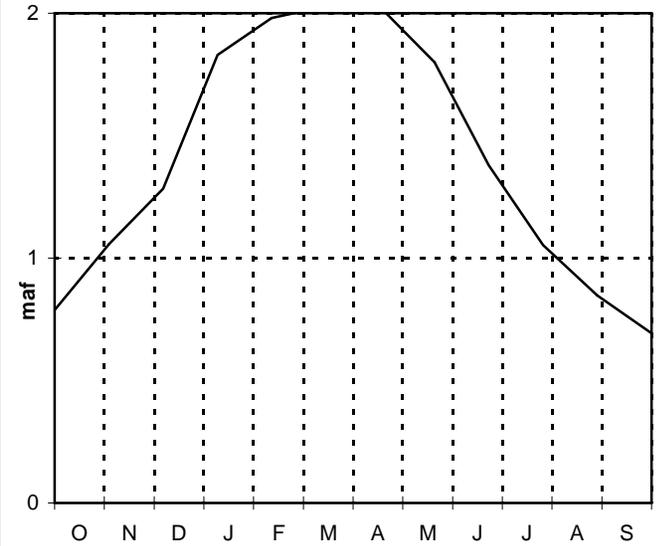
Lake Oroville storage

— 90% Excd.



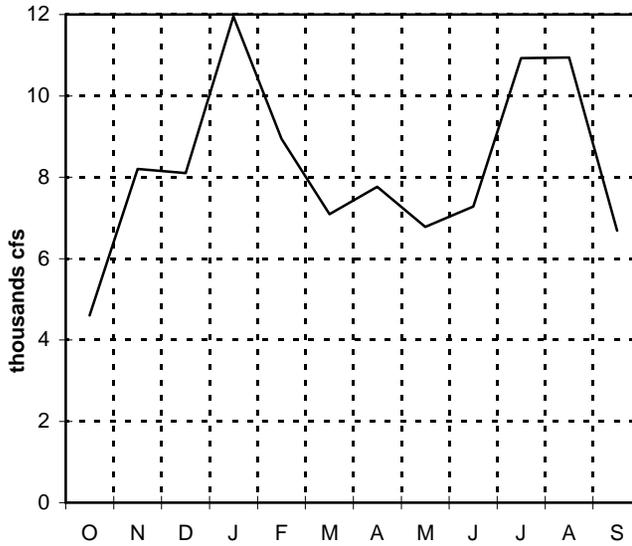
San Luis Reservoir Storage

— 90% Excd.



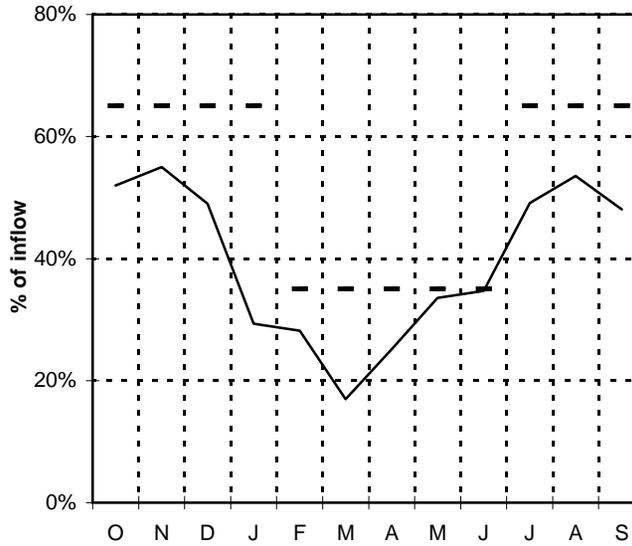
Delta Exports

— 90% Excd.



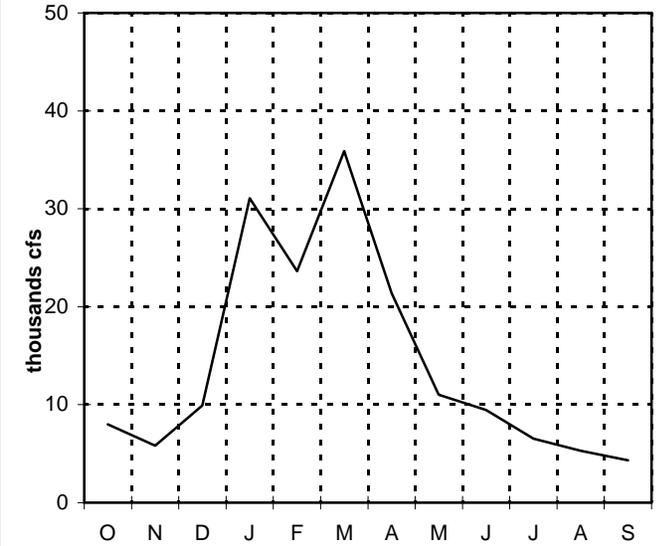
Delta Export/Inflow percent

— 90% Excd.



Net Delta Outflow Index

— 90% Excd.



Flows are monthly averages.

WY 2004/2005 EWA Accounting Summary
 Based upon April Operations Study - 90% Exceedance Hydrology
Assumptions: SWP Allocation - 80%; NOD Purchases - 88.2 TAF; SOD Purchases - 148 TAF
(Pre-VAMP shoulder starts on 4/15/05; VAMP starts on 5/1/05; DEBT ≤ 100 TAF TO PROJECTS)
(San Joaquin flow at Vernalis for May is 8,000 cfs; Exports at a combined 3,000 cfs)

EWA NOD and SOD Storage (+ = Acquisitions) and (- = Releases)																	
1	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NOD (Oroville)																	0.0
NOD (non-Oroville) ⁰		18.7 ⁴		6.2 ⁵				62.0 ¹¹		10.0 ¹²			10.0 ¹³				0.0
YCWA ²		0.9 ³	-0.9 ³														0.0
PCWA (released into Folsom)		7.9 ⁴	7.9 ⁴	2.9 ⁴													18.7
Instream Uses/Non-Capturable Water					-15.4 ⁴	-3.3 ¹⁵											-18.7
SOD (KCWA/SCVWD)									148.0 ^{14 16 17}								148.0
SOD (MWD)																	0.0

EWA Asset Acquisition in SWP San Luis ¹																	
2	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
E/I Relaxation																	0.0
EWA share of SWP gain			0.29														0.3
Project Pumping to reduce EWA debt						34.5											34.5
JPOD using excess flows																	0.0
JPOD using NOD storage																	0.0
Xfer NOD - Sacramento River ²		0.9 ³									16.8 ¹¹	21.8 ^{5 11}	24.0 ^{11 12}				63.4
Xfer NOD - San Joaquin River ²														9.0 ¹³			9.0
SOD SWP Surface/GW Purchases										29.7 ¹⁴	30.0 ¹⁶	80.0 ¹⁷					139.7
Exchange of EWA assets																	0.0
Groundwater pumping SOD																	0.0
Exchange from CVP to SWP in SL																	0.0
Total Monthly EWA Assets		0.9	0.3	0.0	0.0	34.5	0.0	0.0	0.0	29.7	46.8	101.8	24.0	9.0	0.0	0.0	246.9

EWA Asset Acquisition in CVP San Luis ¹																	
3	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
E/I Relaxation																	0.0
Project Pumping to reduce EWA debt							28.2										28.2
JPOD using excess flows																	0.0
JPOD using NOD storage																	0.0
Xfer NOD - Sacramento River ²																	0.0
Xfer NOD - San Joaquin River ²																	0.0
SOD CVP Surface/GW purchases											8.3 ¹⁴						8.3
Exchange of EWA assets																	0.0
Groundwater pumping																	0.0
Exchange from SWP to CVP in SL																	0.0
Total Monthly EWA Assets	0.0	0.0	0.0	0.0	0.0	0.0	28.2	0.0	0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0	36.5

EWA Expenditures at the Export Pumps																	
4	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SWP export cuts				-4.2 ⁶		-32.8 ⁷		-122.0 ⁸	-153.7 ⁸								-312.7
CVP export cuts						-11.0 ⁷		0.0 ⁹	0.0 ⁹								-11.0
Total Expenditures	0.0	0.0	0.0	-4.2	0.0	-43.8	0.0	-122.0	-153.7	0.0	-323.7						

EWA End-of-Month Incremental Storage Changes																	
5	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SWP in SL (without Source Shift)	1.4	0.9	0.3	-4.2	0.0	1.6	0.0	-122.0	-153.7	29.7	46.8	101.8	24.0	9.0	0.0	0.0	-64.4
CVP in SL	-17.2	0.0	0.0	0.0	0.0	-11.0	28.2	0.0	0.0	0.0	8.3	0.0	0.0	0.0	0.0	0.0	8.3
NOD Storage	0.9	17.8	0.0	6.2	-15.4	-3.3	0.0	62.0	0.0	10.0	-21.0	-27.2	-20.0	-10.0	0.0	0.0	0.0
SOD Storage (non-S.L.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	148.0	-29.7	-38.3	-80.0	0.0	0.0	0.0	0.0	0.0
Total Incremental Storage Changes	-14.9	18.7	0.3	2.1	-15.4	-12.7	28.2	-60.0	-5.7	10.0	-4.2	-5.4	4.0	-1.0	0.0	0.0	-56.1

EWA Cumulative End-of-Month Storage Balance at Various Sites																	
6	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
SWP in SL (without Source Shift)	1.4	2.2	2.5	-1.6	-1.6	0.0	0.0	-122.0	-275.7	-246.0	-199.2	-97.4	-73.4	-64.4	-64.4	-64.4	
CVP in SL (without Source Shift)	-17.2	-17.2	-17.2	-17.2	-28.2	0.0	0.0	0.0	0.0	0.0	8.3	8.3	8.3	8.3	8.3	8.3	
NOD Storage	0.9	18.7	18.7	24.9	9.5	6.2	6.2	68.2	68.2	78.2	57.2	30.0	10.0	0.0	0.0	0.0	
SOD Storage (non-S.L.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	148.0	118.3	80.0	0.0	0.0	0.0	0.0	0.0	
EWA Asset Balance	-14.9	3.8	4.1	6.1	-9.2	-21.9	6.2	-53.8	-59.5	-49.5	-53.7	-59.1	-55.1	-56.1	-56.1	-56.1	

San Luis Reservoir Storage Conditions																	
7	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Total Storage (base case) ¹⁰		803	1072	1301	1829	1996	2030	2028	1703	1278	975	790	662	642	777	954	
SWP		520	601	674	1015	1100	1063	1062	961	807	766	751	613	506	478	475	
CVP		283	471	628	814	897	966	966	742	471	209	39	49	136	299	479	
Encroachment																	
Total Storage (EWA case)		788	1058	1283	1810	1968	2030	1906	1427	1032	784	701	597	586	721	898	
MWD Source Shifting																	
Storage (with MWD source shifting)		788	1058	1283	1810	1968	2030	1906	1427	1032	784	701	597	586	721	898	

⁰ 2005 NOD Purchases = 6.2(SFWP) + 62(YCWA) + 10(PCWA) + 10(MID). Additional option offers: 63(YCWA) + 10(PCWA) + 5(MID)
 2005 SOD Purchases = 30(KCWA) + 80(MWD). Prop 204 = 29.7(KCWA) + 8.3(SCVWD).
¹ Aqueduct conveyance and evaporation losses are not included.
² Carriage water loss applies to water transfers from the Sacramento River (assumed to be 20% until modeling results indicate otherwise);
 a 10% conveyance loss applies to water transfers from the San Joaquin River.
Carriage water loss in WY 2004 was 0%.
³ 2004 YCWA Transfer (Joint place of use) ⁴ 2004 PCWA Transfer (Joint place of use) ⁵ 2005 SFWP Transfer (Joint place of use)
⁶ About 4.2 TAF was expended for the Delta Action 8 experiment which occurred between 12/6/04 - 12/15/04.
⁷ About 60.2 TAF was expended for the export curtailment which occurred between 2/205 - 2/7/05.
⁸ The SWP's projected cost for VAMP is 153.7 TAF. The cost for a Pre-VAMP Shoulder is 122 TAF.
⁹ The CVP's costs for a pre-VAMP shoulder and VAMP are assumed to be covered by B2.
¹⁰ Based upon the 4/2005 DWR's 90% (90% Fall) allocation study and 4/2005 USBR's 90% (90% Fall) B2 forecast.
¹¹ 2005 YCWA Transfer (Joint place of use) ¹² 2005 PCWA Transfer (Joint place of use)
¹³ 2005 MID Transfer (Joint place of use) ¹⁴ 2005 Prop 204 SOD Transfer - KCWA - 29.7 TAF (SWP place of use) and SCVWD - 8.3 TAF (CVP place of use)
¹⁵ The CVP spilled ~ 3.3 TAF of EWA water stored in Folsom during flood control operations.
¹⁶ 2005 KCWA Transfer (SWP place of use) ¹⁷ 2005 MWD Transfer (SWP place of use)