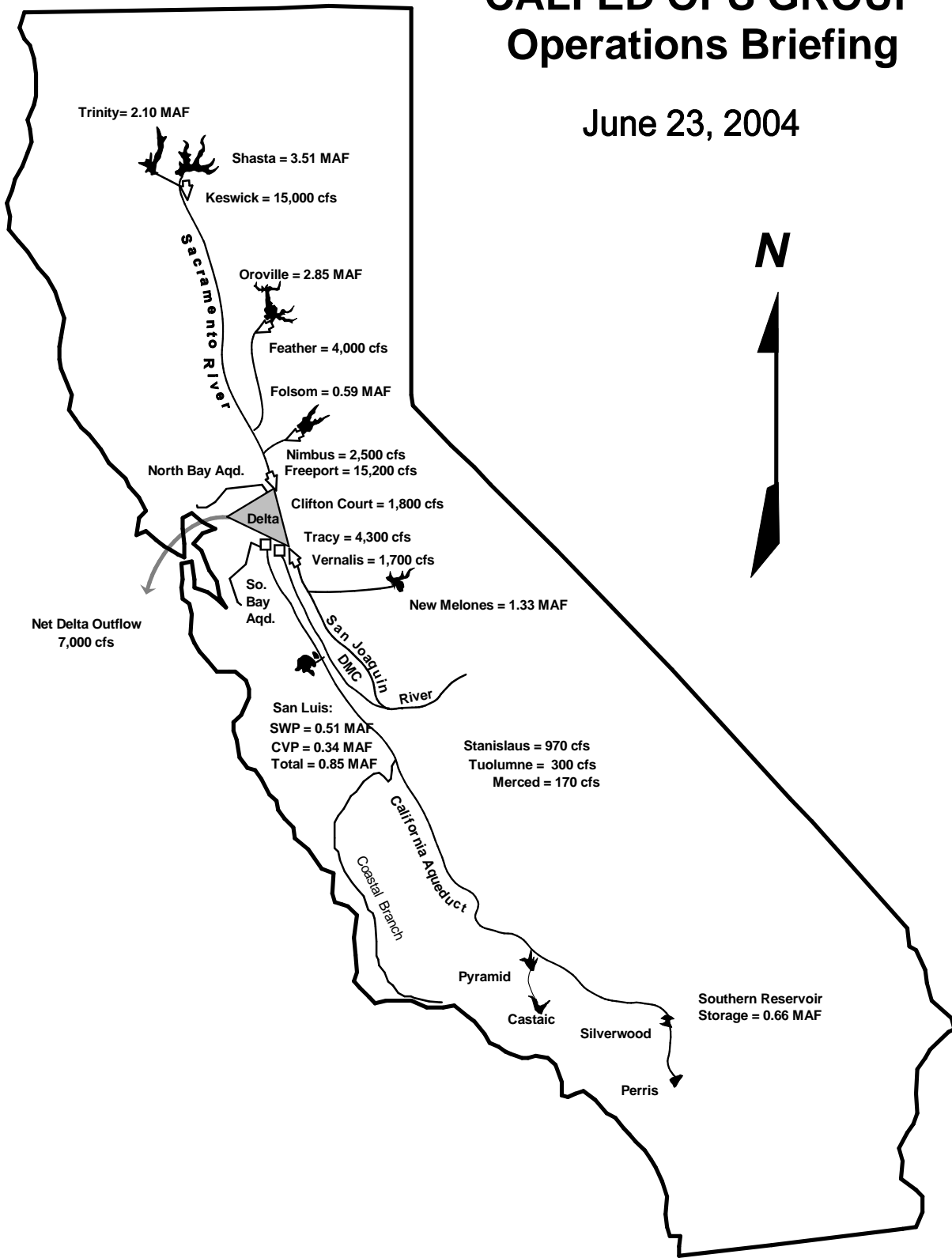


CALFED OPS GROUP Operations Briefing

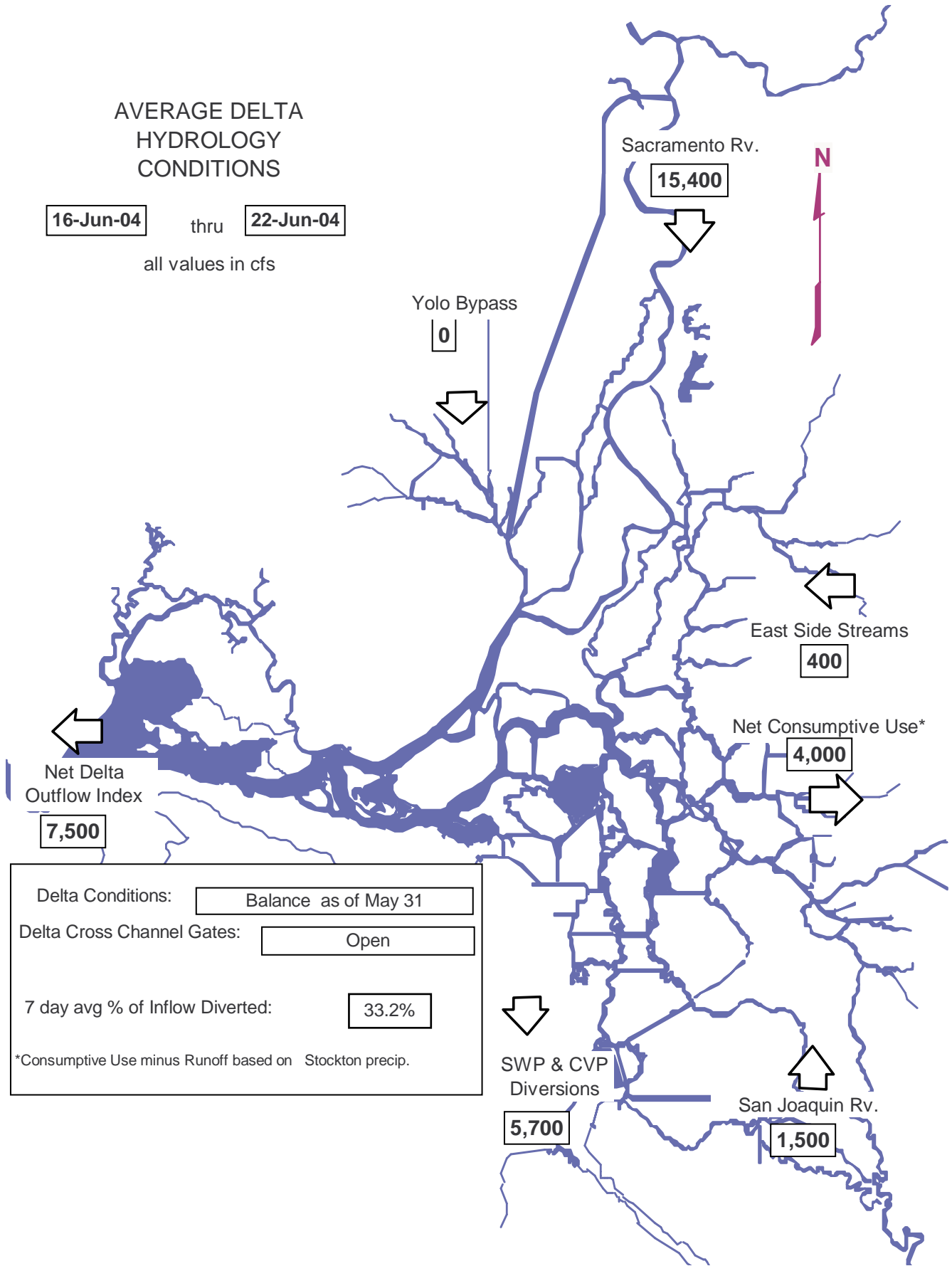
June 23, 2004



AVERAGE DELTA
HYDROLOGY
CONDITIONS

16-Jun-04 thru 22-Jun-04

all values in cfs



Delta Conditions:	Balance as of May 31
Delta Cross Channel Gates:	Open
7 day avg % of Inflow Diverted:	33.2%

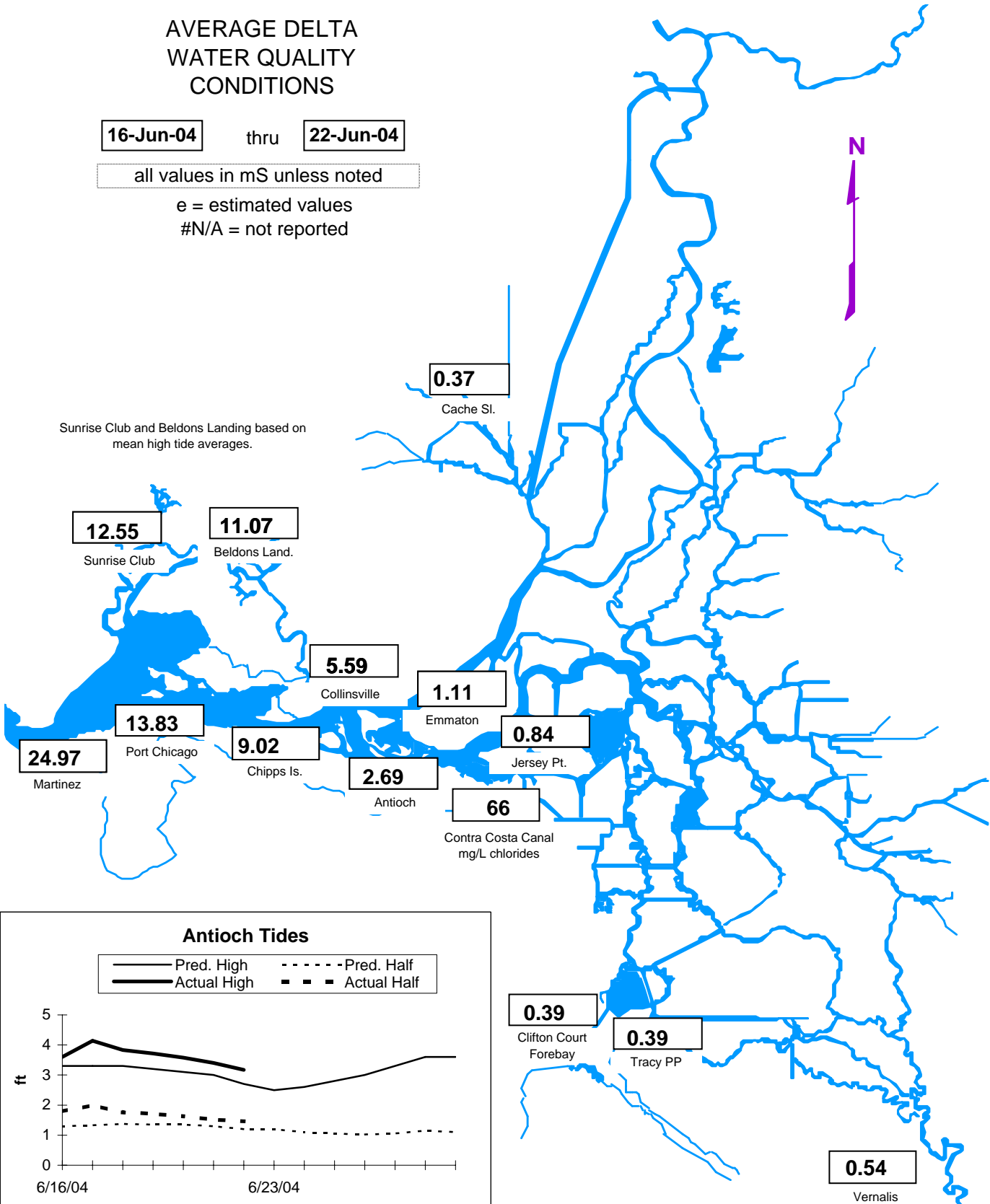
*Consumptive Use minus Runoff based on Stockton precip.

AVERAGE DELTA WATER QUALITY CONDITIONS

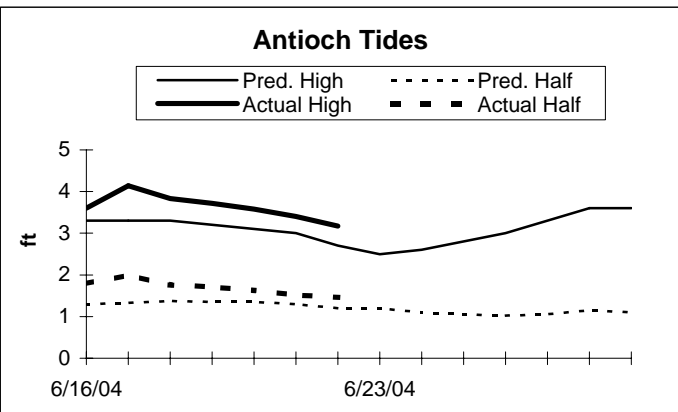
16-Jun-04 thru 22-Jun-04

all values in mS unless noted

e = estimated values
#N/A = not reported



Sunrise Club and Beldons Landing based on mean high tide averages.



DRAFT

Bay-Delta Standards

Contained in D-1641

DRAFT

CRITERIA	Jun 04	Jul 04	Aug 04	
FLOW/OPERATIONAL				
<ul style="list-style-type: none"> • Fish and Wildlife 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 Delta Cross Channel Gates 	35%		65%	
			6500 cfs	4000 cfs
			5200 cfs	3200 cfs
	↑ 30 days at collinsville			
		1,420 cfs		
		1,136 cfs		
		Gates may close 14 days from May 21 - June 15 up to 4 consec. days		
WATER QUALITY STANDARDS				
<ul style="list-style-type: none"> • Municipal and Industrial All Export Locations Contra Costa Canal 		Cl <= 250 mg/l		
		Cl <= 150 mg/l for 175 days (All days have been met)		
<ul style="list-style-type: none"> • Agriculture Western/Interior Delta Southern Delta 	Max 14-dm <= 0.45 mS/cm EC (June 21 - Aug 15; Emmaton <=1.14 mS/cm, Jersey <= 0.74 mS/cm EC.)			
	30-day running average EC <= 1.0 mS (@ Vernalis <= 0.7 mS)			
<ul style="list-style-type: none"> • Fish and Wildlife San Joaquin River Salinity Suisun Marsh Salinity 				

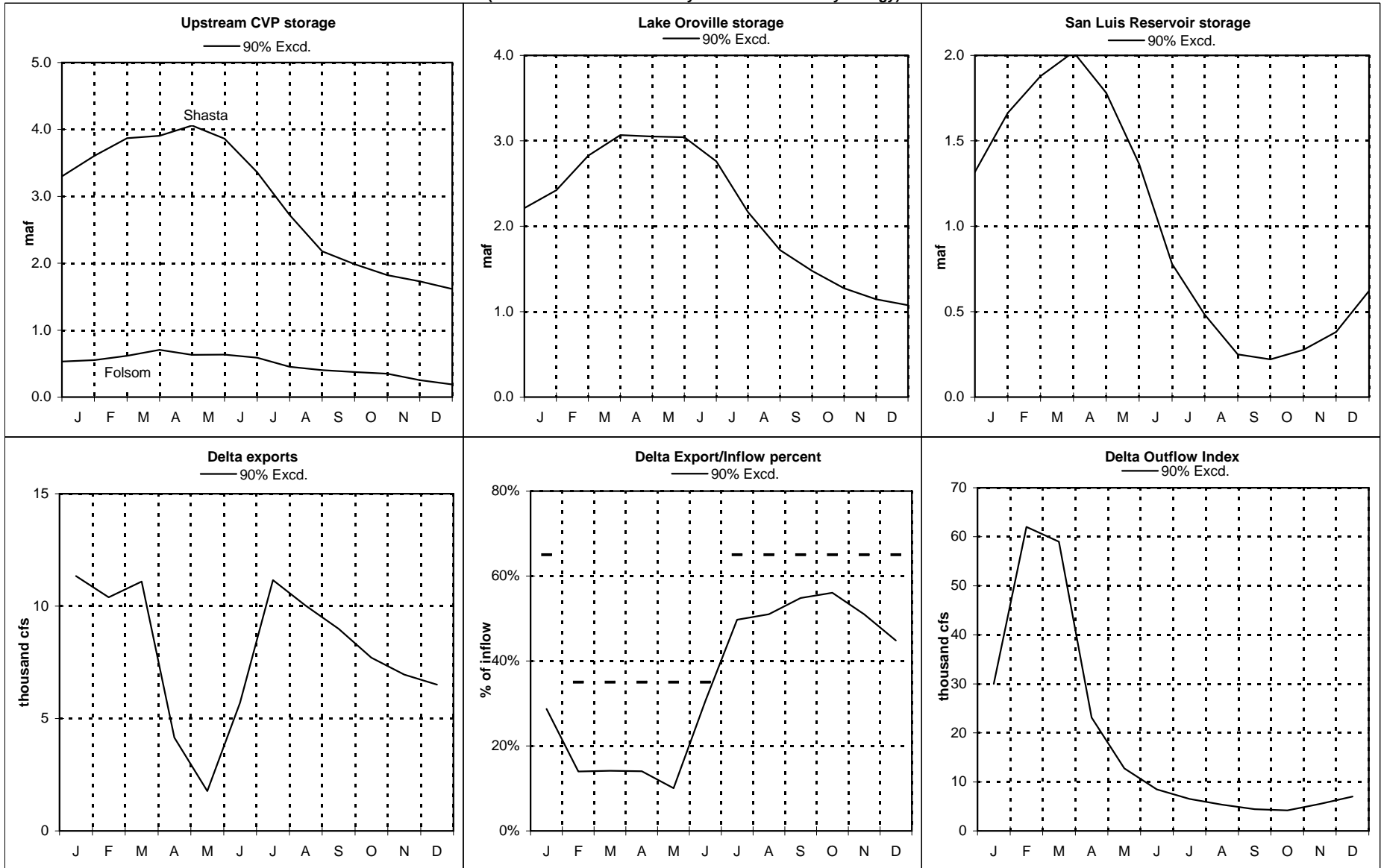
Water Year Classification: (May 1 forecast)

SRI (40-30-30 @ 50%) = 7.7 (Below Normal) May 8RI: 2.65 MAF

SJV (60-20-20 @75%) = 2.2 (Dry)

SWP & CVP CY 2004 Forecasted Operations

(based on 6/1/04 snow survey and historical fall hydrology)



Flows are monthly averages.

WY 2003/2004 EWA Accounting Summary

Based upon June Operations Study - 90% Exceedance Hydrology

Assumptions: SWP Allocation - 65%; NOD Purchases - 120 TAF; SOD Purchases - 35 TAF

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	0.398					-0.398 ³											0
NOD (YCWA/PCWA)									101 ⁴	20 ⁵							120
YCWA											-39	-43	-15	-4			-101
PCWA											-6	-6	-0.4	-2	-5		-20
Carriage Water Loss ²											-11	-12	-4	-2	-1		-30
SOD (KCWA/SCVWD)									35 ⁶	-12 ⁶	-12 ⁶	-12 ⁶					0
SOD (MWD)																	0

EWA Asset Acquisition in SWP San Luis																	
2	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
E/I Relaxation																	0
EWA share of SWP gain																	0
Project Pumping to reduce EWA debt																	0
JPOD using excess flows																	0
JPOD using NOD storage																	0
Xfer NOD - Sacramento River ²											11 ⁴	14 ⁴	11 ⁴	3 ⁴			39
Xfer NOD - San Joaquin River ²																	0
SOD SWP Surface/GW Purchases										12 ⁶	12 ⁶	12 ⁶					35
Exchange of EWA assets																	0
Groundwater pumping SOD																	0
Exchange from CVP to SWP in SL																	0
Total Monthly EWA Assets		0	0	0	0	0	0	0	0	12	22	25	11	3	0	0	74

EWA Asset Acquisition in CVP San Luis																	
3	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
E/I Relaxation																	0
Project Pumping to reduce EWA debt							0.202										0
JPOD using excess flows																	0
JPOD using NOD storage											23 ^{4,5}	23 ^{4,5}	0.3 ^{4,5}	2 ^{4,5}	4 ⁵		52
Xfer NOD - Sacramento River ²																	0
Xfer NOD - San Joaquin River ²																	0
SOD CVP Surface/GW purchases																	0
Exchange of EWA assets																	0
Groundwater pumping																	0
Exchange from SWP to CVP in SL																	0
Total Monthly EWA Assets	0	0	0	0	0	0	0	0	0	0	23	23	0	2	4	0	52

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									-6 ⁷	-49 ⁷							-55
CVP export cuts									-52 ⁸								-52
Total Expenditures	0	0	0	0	0	0	0	0	-6	-101	0	0	0	0	0	0	-106

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)	0.057	0	0	0	0	0	0	-6	-49	12	22	25	11	3	0	0	19
CVP in SL	-0.202	0.000	0.000	0.000	0.000	0.000	0.202	0	-52	0	23	23	0	2	4	0	0
NOD Storage	0.398	0	0	0	0	-0.398	0	0	101	20	-44	-49	-15	-7	-5	0	0
SOD Storage (non-S.L.)	0.000	0	0	0	0	0	0	0	35	-12	-12	-12	0	0	0	0	0
Total Incremental Storage Changes	0.253	0	0	0	0	0	0	-6	35	20	-11	-12	-4	-2	-1	0	19

EWA 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)	0.057	0	0	0	0	0	0	-6	-55	-43	-21	5	16	19	19	19	
CVP SL	-0.202	-0.202	-0.202	-0.202	-0.202	-0.202	0	0	-52	-52	-29	-6	-6	-4	0	0	
NOD Storage	0.398	0.398	0.398	0.398	0.398	0.000	0	0	101	120	76	27	12	5	0	0	
SOD Storage (non-S.L.)	0.000	0	0	0	0	0	0	0	35	23	12	0	0	0	0	0	
EWA Asset Balance	0.253	0	0	0	0	0	0	-6	29	49	38	26	22	20	19	19	

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) ⁹		650	788	1010	1665	1879	2020	1774	1320	750	477	269	246	276	382	622	
Encroachment																	
Total Storage (EWA case)		650	788	1010	1664	1878	2020	1768	1214	655	427	267	256	291	401	641	
MWD Source Shifting																	
Storage (with MWD source shifting)		650	788	1010	1664	1878	2020	1768	1214	655	427	267	256	291	401	641	

⁰ 2004 NOD Purchases = 65(YCWA) + 20(PCWA). YCWA has firm 65 taf; can exercise options for an additional 85 taf.

¹ Aqueduct conveyance and evaporation losses are not included.

² Carriage water loss applies to water transfers from the Sacramento River (assumed to be 25% (due to the levee failure) until modeling results indicate otherwise);

a 10% conveyance loss applies to water transfers from the San Joaquin River. Carriage water loss in WY 2003 was 0%.

³ The SWP spilled ~ 400 af of EWA water stored in Oroville during flood control operations.

⁴ 2004 YCWA Transfer (Joint place of use) ⁵ 2004 PCWA Transfer (Joint place of use)

⁶ 2004 SOD Transfers - 35 TAF from KCWA (SWP place of use)

⁷ The SWP costs for VAMP and its shoulders are about 2.4 TAF (cumulatively) and 52 TAF, respectively.

⁸ The CVP cost for "shoulders" on VAMP is about 52 TAF.

⁹ Based upon DWR's 90% (90% Fall) allocation study (dated 6/2004) for June-Dec; and USBR's 90% Ndb2 study (dated 6/2004) for June-Sept.