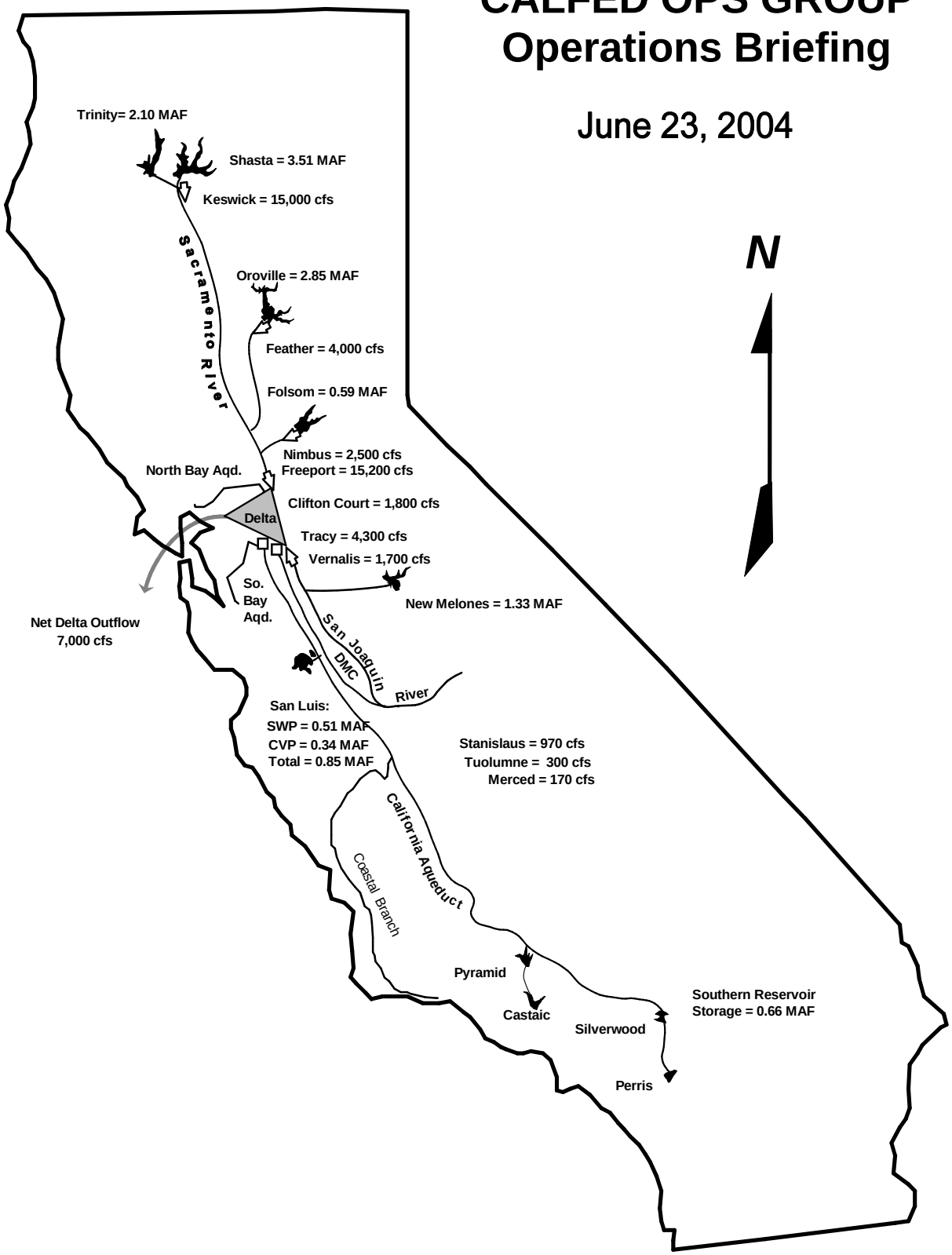
CALFED OPS GROUP
Operations Briefing

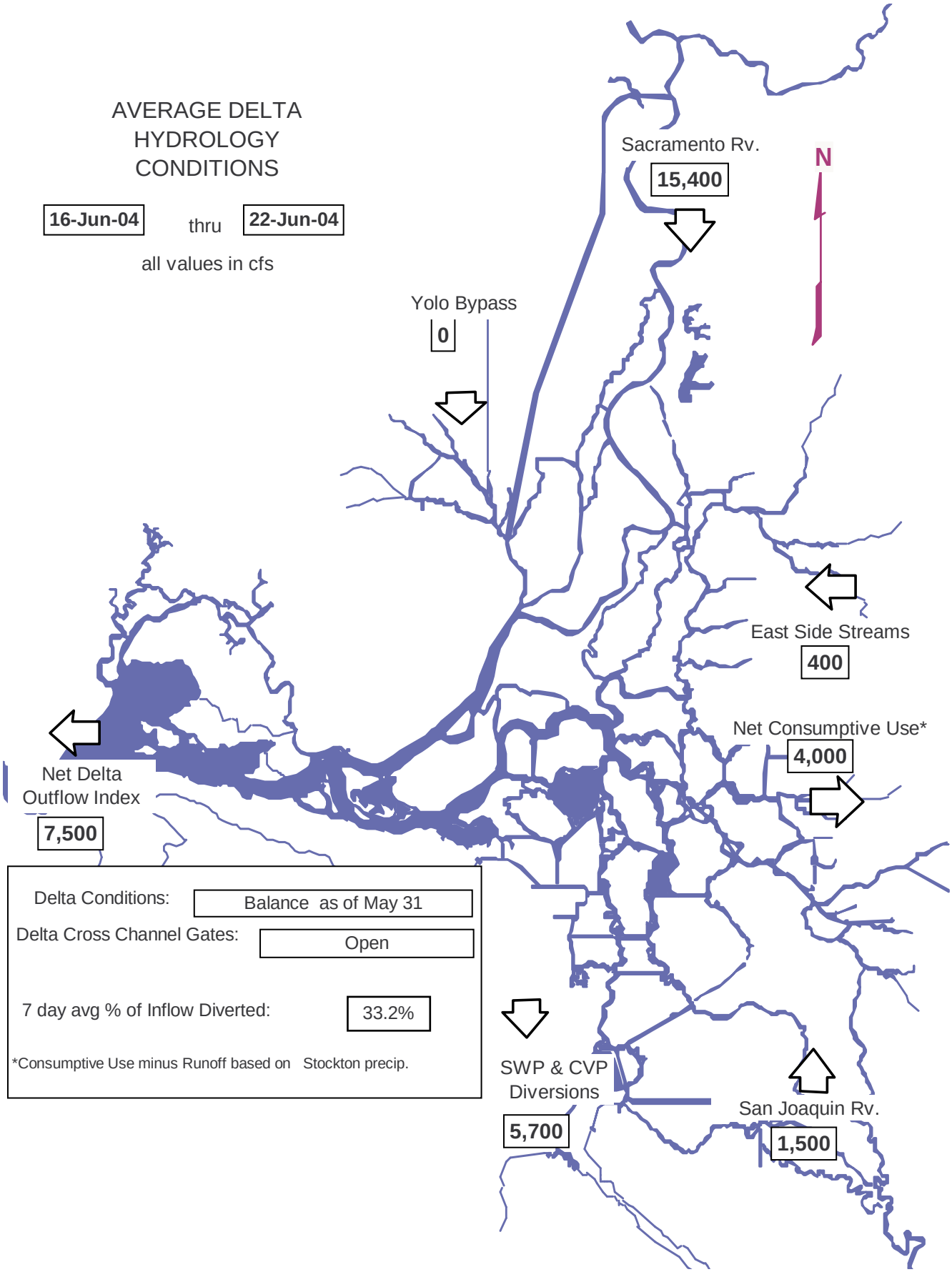
June 23, 2004



CURRENT SWP/CVP OPERATIONAL STATUS

DATA AS OF
June 23, 2004

O&M, OSC


AVERAGE DELTA
HYDROLOGY
CONDITIONS
16-Jun-04
thru
22-Jun-04
all values in cfs
Sacramento Rv.
15,400
N
Yolo Bypass
0
East Side Streams
400
Net Consumptive Use*
4,000
Net Delta
Outflow Index
7,500
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.
SWP & CVP
Diversions
5,700
San Joaquin Rv.
1,500

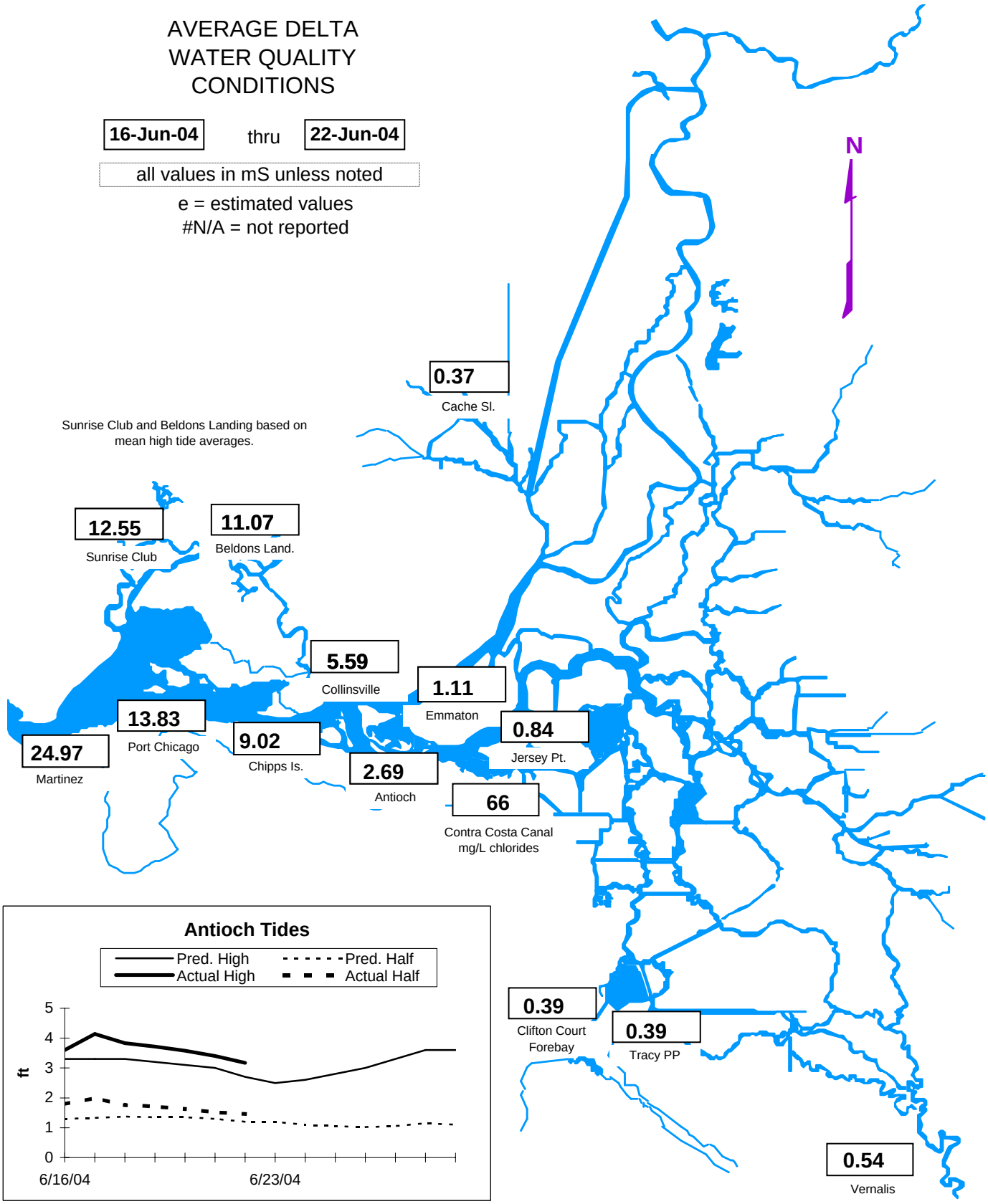
AVERAGE DELTA WATER QUALITY CONDITIONS

16-Jun-04 thru **22-Jun-04**

all values in mS unless noted

e = estimated values

#N/A = not reported



DRAFT

Bay-Delta Standards

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Contained in D-1641

CRITERIA	Jun 04	Jul 04	Aug 04
FLOW/OPERATIONAL			
• Fish and Wildlife			
Export/Inflow Ratio	35%	65%	
Minimum Outflow - mon.		6500 cfs	4000 cfs
- 7 day avg.		5200 cfs	3200 cfs
Habitat Protection Outflow, X2	30 days at collinsville		
River Flows:			
@ Rio Vista - min. mon. avg.			
- 7 day average			
@ Vernalis: Base -min. mon. avg.	1,420 cfs		
- 7 day average	1,136 cfs		
Delta Cross Channel Gates	Gates may close 14 days from May 21 - June 15 up to 4 consec. days		
WATER QUALITY STANDARDS			
• Municipal and Industrial			
All Export Locations	Cl <= 250 mg/l		
Contra Costa Canal	Cl <= 150 mg/l for 175 days (All days have been met)		
• Agriculture			
Western/Interior Delta	Max 14-dm <= 0.45 mS/cm EC (June 21 - Aug 15; Emmaton <=1.14 mS/cm, Jersey <= 0.74 mS/cm EC.)		
Southern Delta	30-day running average EC <= 1.0 mS (@ Vernalis <= 0.7 mS)		
• Fish and Wildlife			
San Joaquin River Salinity			
Suisun Marsh Salinity			

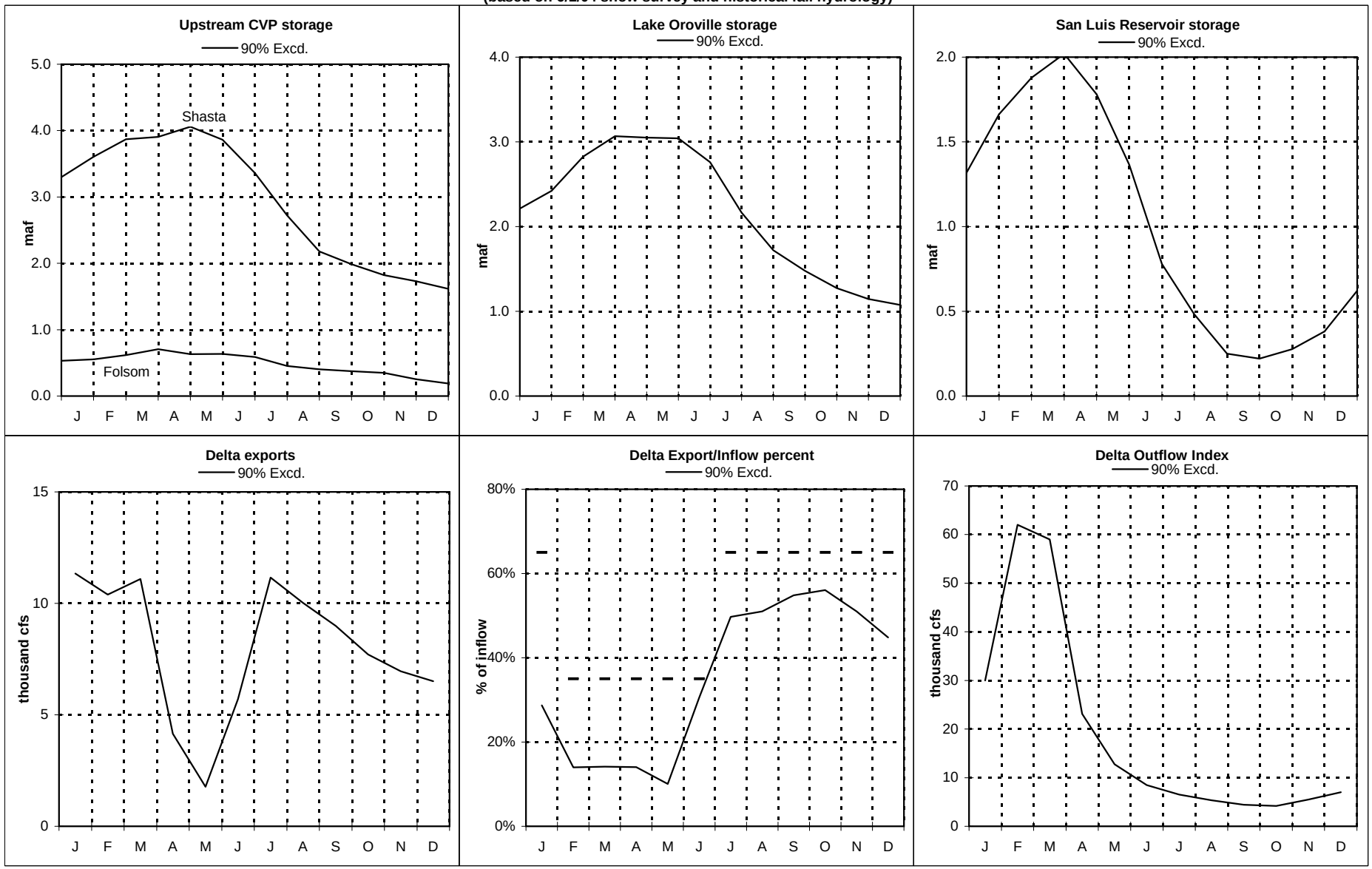
Water Year Classification: (May 1 forecast)

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 [1]

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**	**-6**	**-101**	**0**	**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
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 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 0	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.