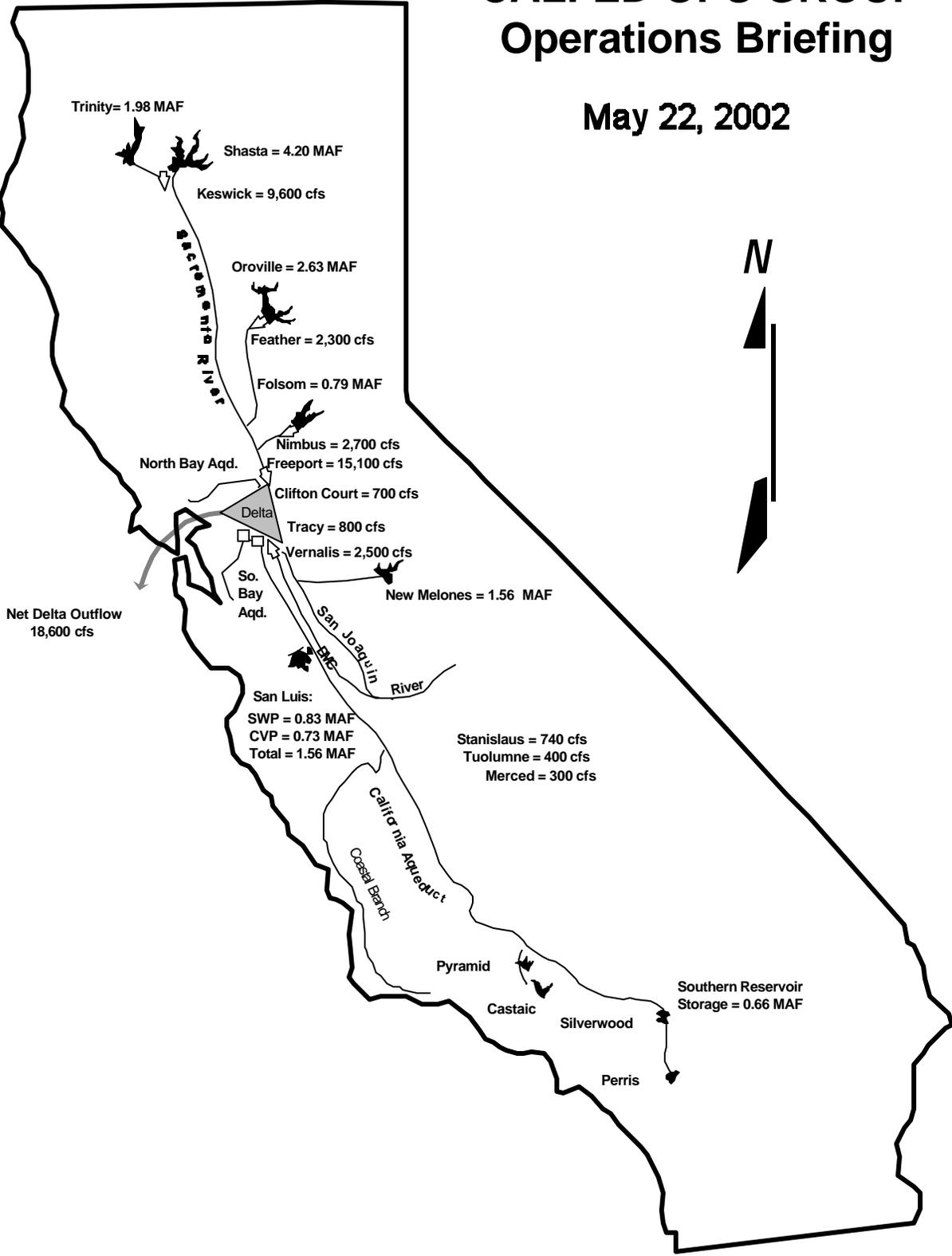


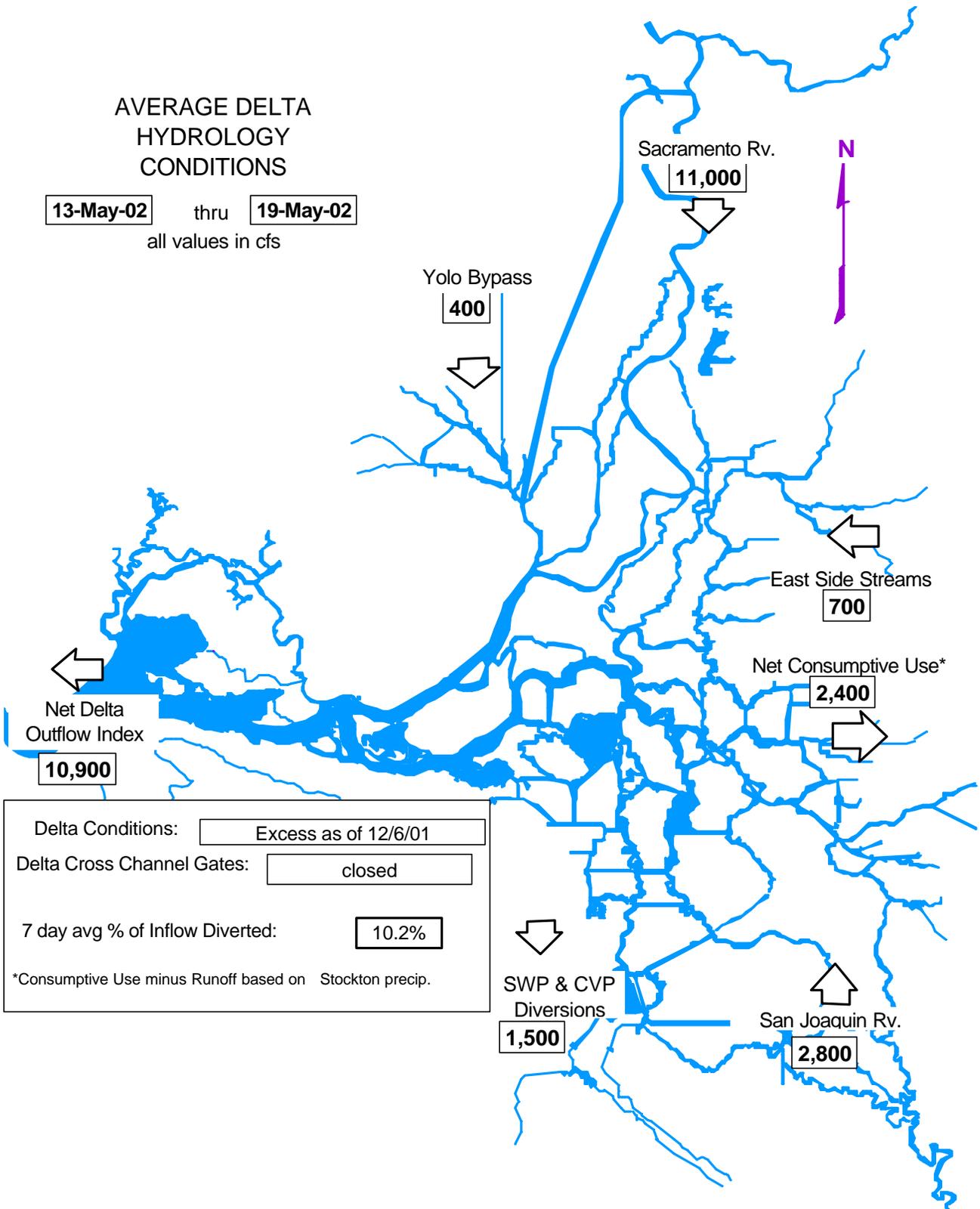
CALFED OPS GROUP Operations Briefing

May 22, 2002



AVERAGE DELTA HYDROLOGY CONDITIONS

13-May-02 thru **19-May-02**
all values in cfs



Delta Conditions:	Excess as of 12/6/01
Delta Cross Channel Gates:	closed
7 day avg % of Inflow Diverted:	10.2%
*Consumptive Use minus Runoff based on Stockton precip.	

AVERAGE DELTA WATER QUALITY CONDITIONS

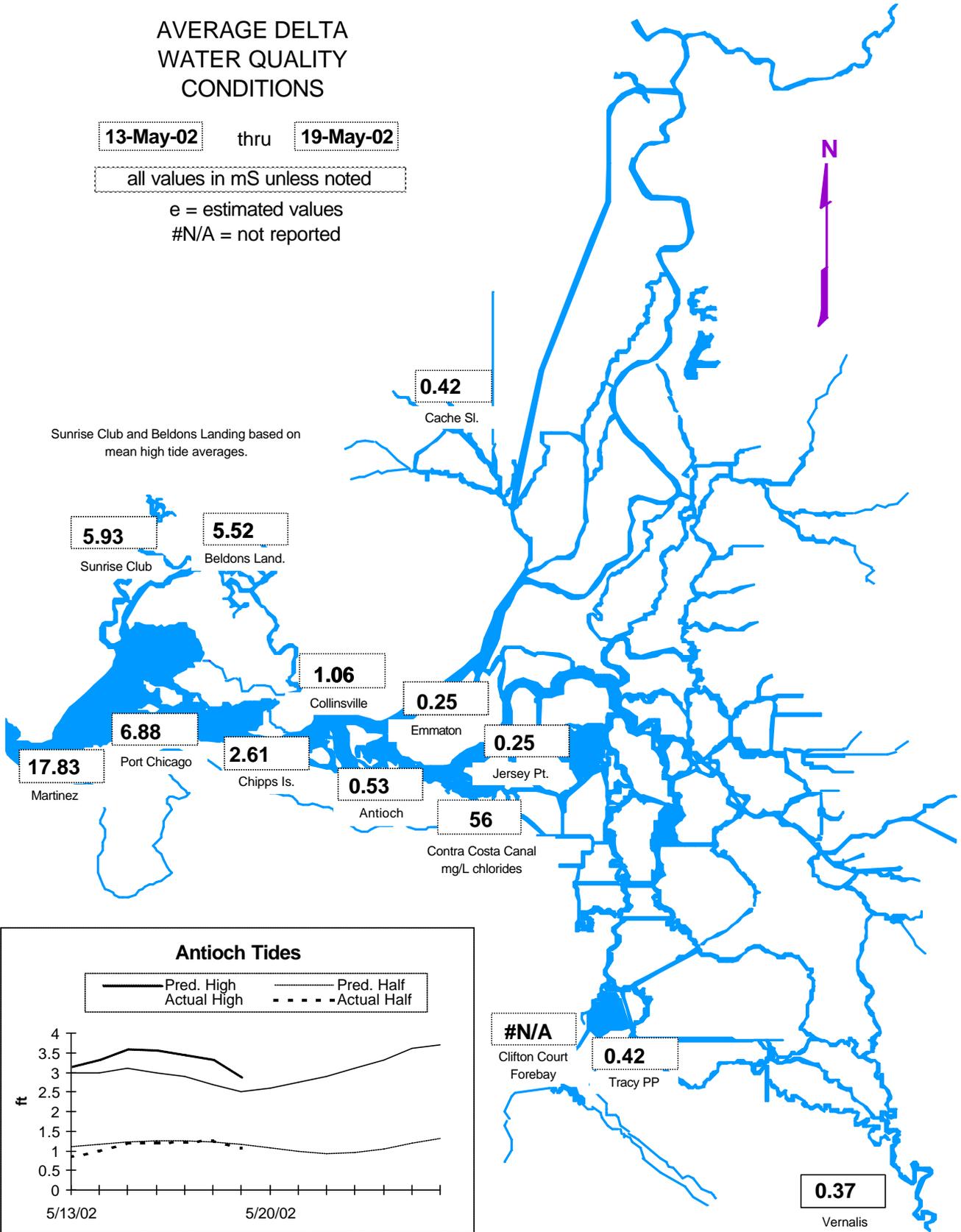
13-May-02 thru **19-May-02**

all values in mS unless noted

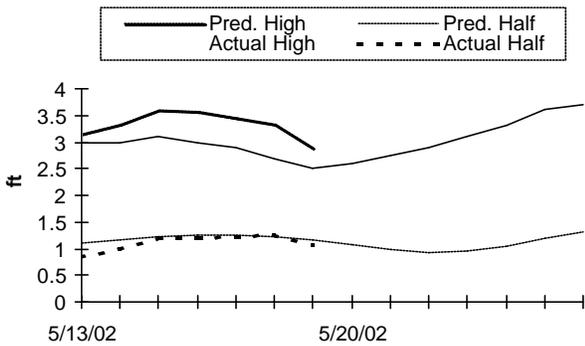
e = estimated values

#N/A = not reported

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



Antioch Tides



DRAFT

Bay-Delta Standards

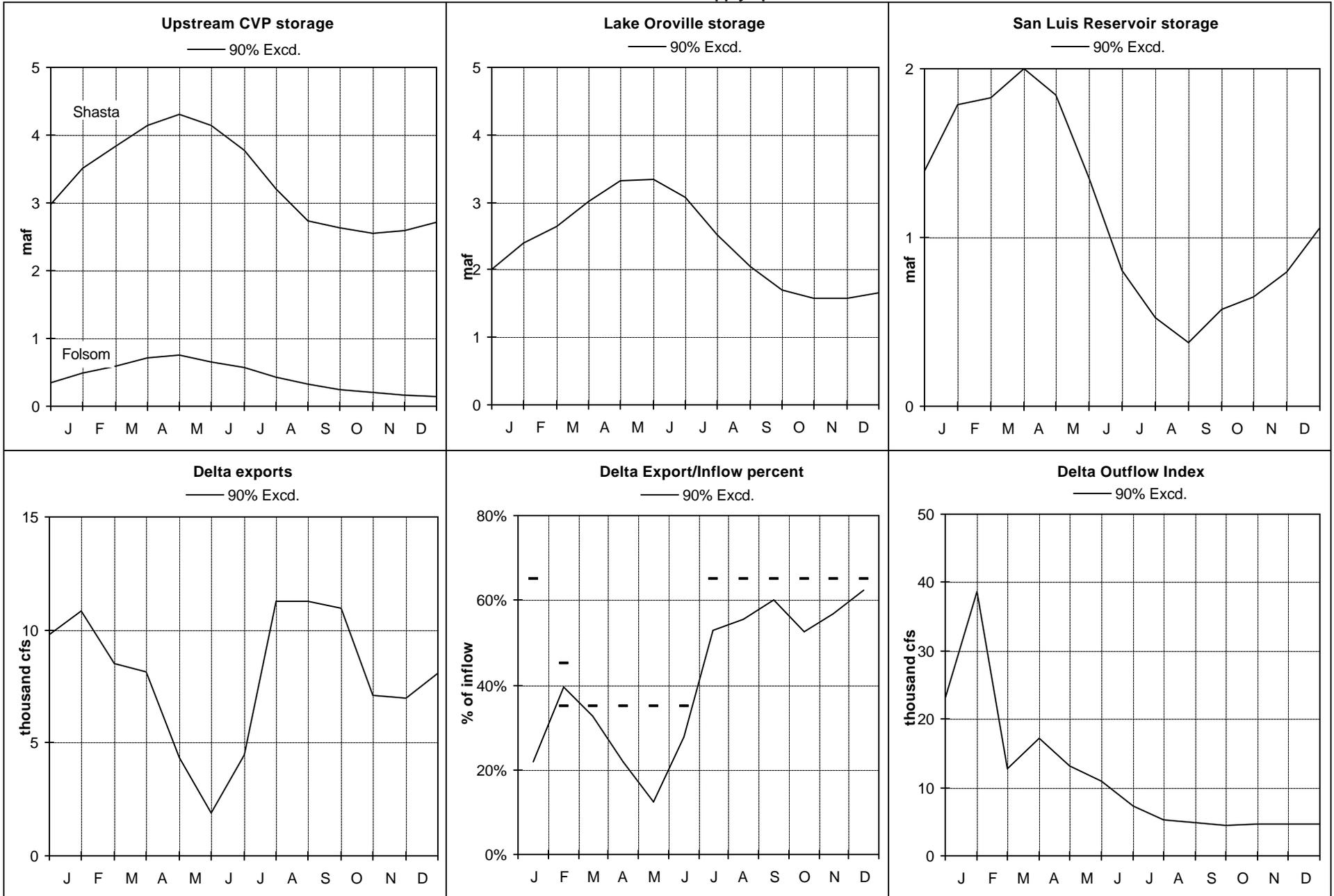
DRAFT

Contained in D-1641 and the Winter-Run and Delta Smelt Biological Opinions

CRITERIA	May 02	Jun02	Jul 02
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 Delta Cross Channel Gates 	<p>greater of 1,500 cfs or 100% of 3-day avg. Vernalis flow. Per WOMT: 6/23 to 6/30, 40%</p> <p>35 % of Delta Inflow</p> <p>7,100cfs - 29,200 cfs</p> <p>Chipps Island for 22</p> <p>Chipps Island for ~ 3 days</p> <p>2280 cfs</p> <p>1824 cfs</p> <p>3200 cfs</p> <p>gates may close 4 consec. days ea. wk.</p> <p>Closed May 21 - June 15 close 14 days per CALFED Op's</p>		
			65% of Delta Inflow
			5000 cfs
			4000 cfs
WATER QUALITY STANDARDS			
<ul style="list-style-type: none"> Municipal and Industrial All Export Locations Contra Costa Canal Agriculture Western/Interior Delta Southern Delta Fish and Wildlife San Joaquin River Salinity Suisun Marsh Salinity 			
			CI <= 250 mg/l
			CI <= 150 mg/l for 165 days for Dry Year Type
			Max. 14-day average EC mmhos/cm: 0.45 mS/cm
			30-day running average EC <= 0.7 mS
			14-day avg; 0.44 EC
			11.0 mhtEC
<p>Water Year Classification: (May 1 forecast)</p> <p>SRI (40-30-30 @ 50%) = 6.5 (Dry) May 8RI: 2.83 MAF</p> <p>SJV (60-20-20 @ 75%) = 2.3 (Dry)</p>			

SWP & CVP WY 2002 Forecasted Operations.

Based on 05/02 water supply update



Flows are monthly averages.

WY 2001/2002 EWA Accounting Summary
Based on May 1 -- 90% Exceedence Hydrology

EWA NOD and SOD Storage																	
1	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
NOD ⁰	45							20 ¹⁴	145	90 ¹⁴							300
SOD																	

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			3			76											79
EWA share of SWP gain		3															3
Project Pumping to reduce EWA debt																	0
JPOD using excess flows																	0
JPOD using excess NOD storage											28 ¹⁴	23 ¹⁴	40 ¹⁴				91
Xfer NOD - Sacramento River ²		4 ³	11 ³														15
Xfer NOD - San Joaquin River ²		12 ⁴	11 ⁴														23
SOD SWP surface purchases		11 ⁵	9 ⁵	12 ⁵					24 ⁶	24 ⁶	24 ⁶	24 ⁶					130
Exchange of EWA assets							-9 ¹³	-31 ¹³				20 ¹⁵					-20
Groundwater pumping SOD																	0
Exchange from CVP to SWP in SL																	0
Total Monthly EWA Assets		30	34	12	0	76	-9	-31	24	24	52	67	40	0	0	0	320

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
JPOD using excess flows																	0
JPOD using excess NOD storage											41.3 ^{7,8}	41.3 ^{7,8}	26.3 ^{7,8}	11.3 ^{7,8}	1.3 ⁸		122
Xfer NOD - Sacramento River ²										20 ¹⁴							20
Xfer NOD - San Joaquin River ²																	0
SOD federal surface purchases																	0
Exchange of EWA assets																	0
Groundwater pumping																	0
Exchange from SWP to CVP in SL																	0
Total Monthly EWA Assets		0	20	41	41	26	11	1	0	142							

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					-66 ⁹		-38 ¹²	-27 ¹⁰	-75 ¹¹	-80 ¹¹							-287
CVP export cuts									-84 ¹¹	-80 ¹¹							-164
Total Expenditures		0	0	0	-66	0	-38	-27	-160	-160	0	0	0	0	0	0	-451

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)	7	30	34	12	-66	76	-47	-58	-51	-56	52	67	40	0	0	0	41
CVP in SL	0	0	0	0	0	0	0	0	-84	-60	41	41	26	11	1	0	-23
NOD Storage	45	-19	-26	0	0	0	0	20	145	66	-82	-76	-78	-13	0	0	-21
Groundwater SOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Incremental Storage Changes	52	11	8	12	-66	76	-47	-38	10	-50	12	33	-12	-2	1	0	-2

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)	7	37	71	83	17	93	46	-12	-63	-119	-66	1	41	41	41	41	
CVP SL	0	0	0	0	0	0	0	0	-84	-144	-103	-62	-35	-24	-23	-23	
NOD Storage	45	26	0	0	0	0	0	20	165	231	150	74	-4	-19	-21	-21	
Groundwater SOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EWA Asset Balance	52	63	71	83	17	93	46	8	18	-32	-20	13	2	-1	-2	-2	

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) ¹²		708	884	1302	1790	1832	1982	1856	1431	935	493	216	266	345	494	752	
Encroachment																	
Total Storage (EWA case)		745	955	1386	1807	1925	2028	1844	1284	672	324	156	272	362	512	771	
MWD Source Shifting	29	-10	-10	-9						10	25	25		-20	-20	-20	
Storage (with MWD source shifting)		764	964	1386	1807	1925	2028	1844	1284	682	359	216	332	402	532	771	

⁰ 2001 NOD Storage = 20(PCWA) + 25(MID). 2002 NOD Storage = 135(YCWA) + 10(SGA). May is 135(YCWA) + 10(SGA). YCWA has firm 30 TAF; Exercised options for additional 1
¹ Aqueduct conveyance and evaporation losses are not included.
² Carriage water loss applies to water transfers from the Sacramento River; a 10% conveyance loss applies to water transfers from the San Joaquin River.
 Carriage water losses applied to the 2001 water transfers are as follows: 15% for the YCWA and OWID transfers; and 25% for the PCWA transfer.
³ 2001 PCWA Transfer (Joint place of use) ⁴ 2001 MID Transfer (Joint place of use)
⁵ SOD 2001 SWP post lowpoint deliveries = 15(Semitropic/Tulare ID) + 5(Cawelo) + 12(Santa Clara) ⁶ Water acquired from KCWA Interests ⁷ 2002 YCWA Transfer (Joint place of use)
⁸ SGA Transfer ⁹ An estimated total of 66 TAF has been expended for the 1/5-1/9 curtailment.
¹⁰ Approximately 27 TAF has been expended for VAMP for the month of April. ¹¹ Placeholders based upon the 4/1/02 forecast.
¹² Based upon the 5/1/02 DWR's 90% exceedence forecast study ¹³ Conversion from EWA to Project water since San Luis Reservoir was physically full.
¹⁴ Reduction in CVP/SWP exports may allow water to be backed into upstream reservoirs. ¹⁵ A 2:1 exchange program between the SWC and EWA beginning 3/30/02 and ending 4/8/02.