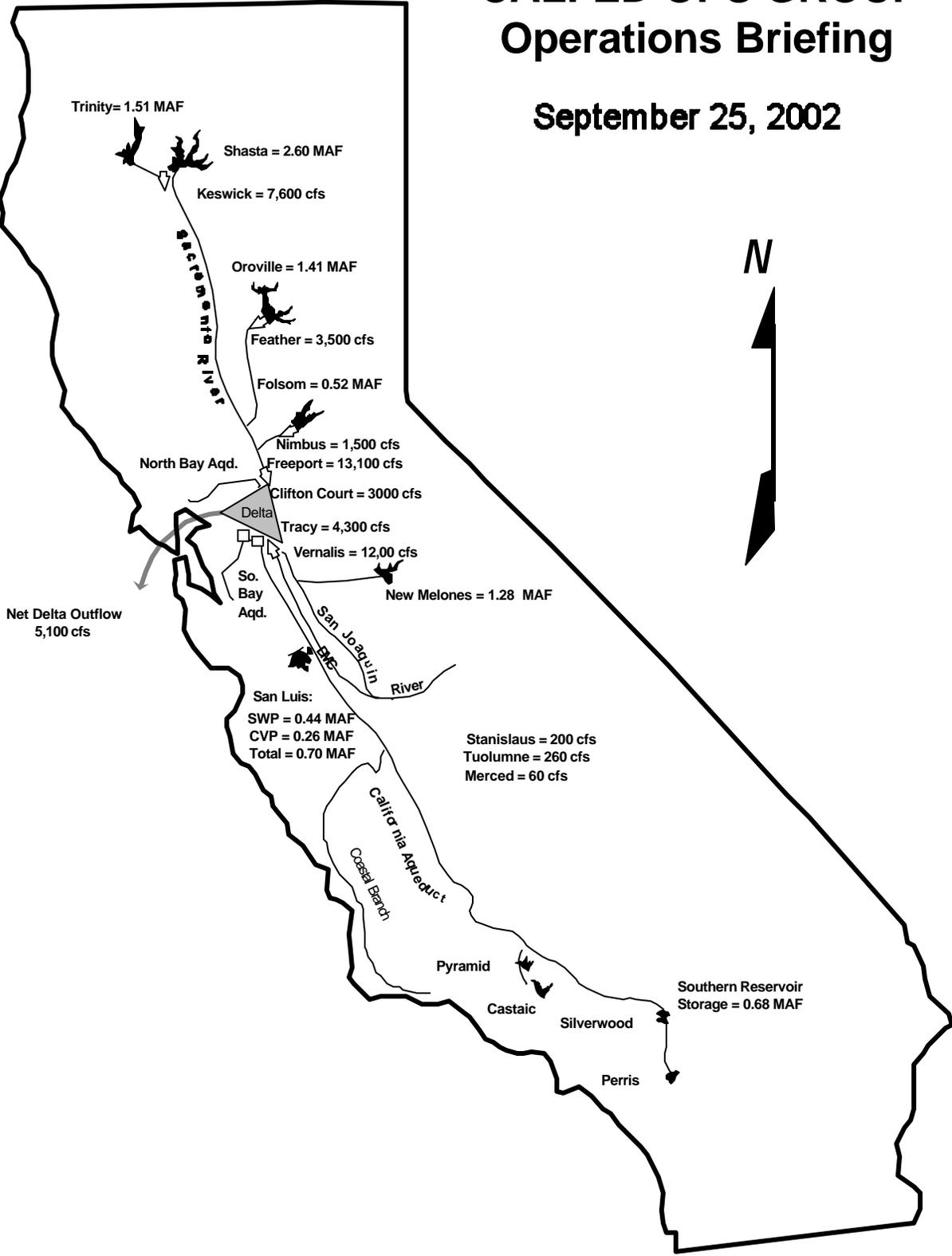


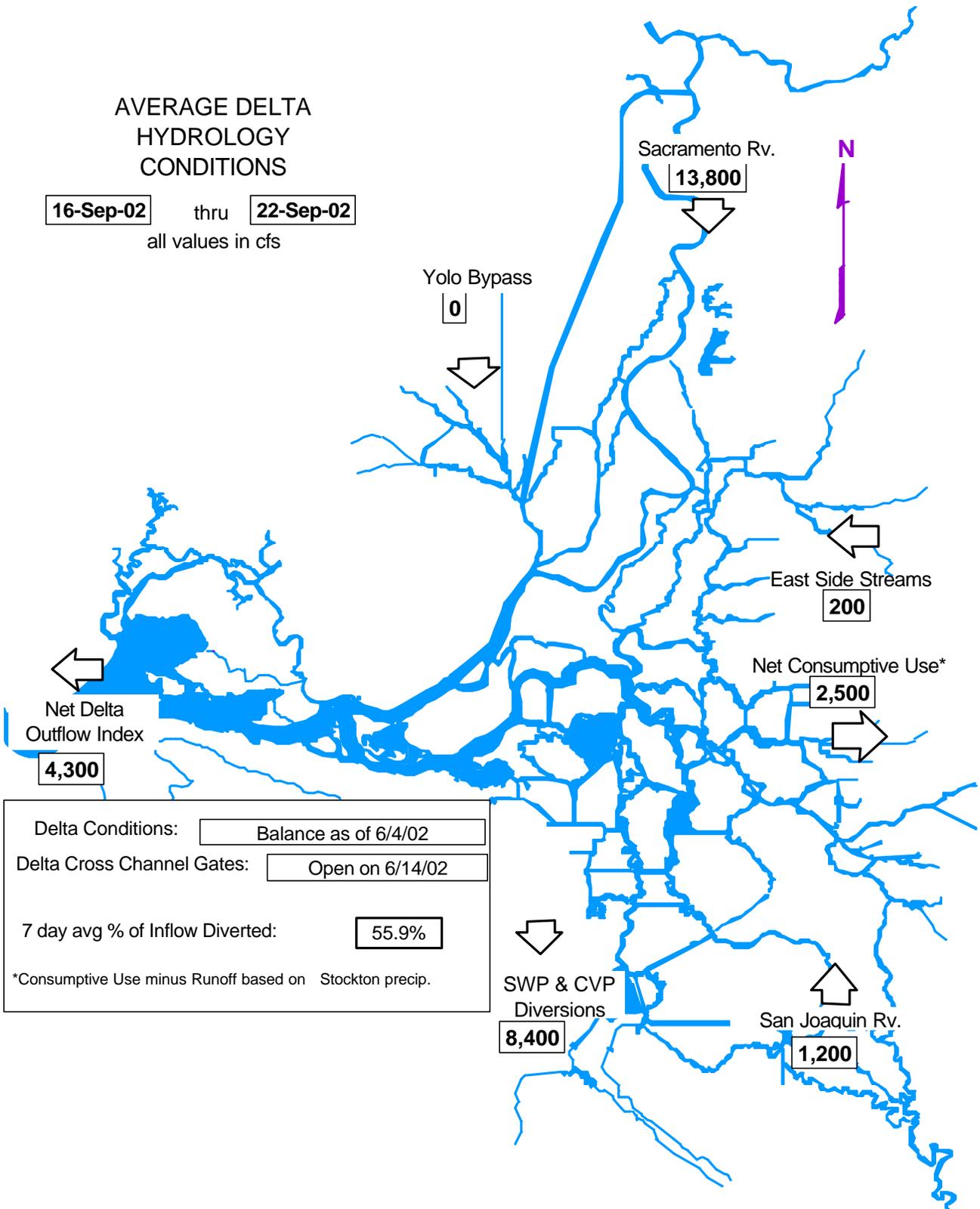
CALFED OPS GROUP Operations Briefing

September 25, 2002



AVERAGE DELTA HYDROLOGY CONDITIONS

16-Sep-02 thru **22-Sep-02**
all values in cfs

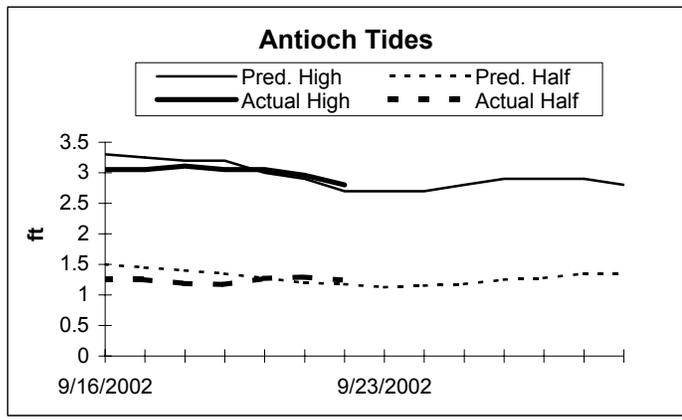
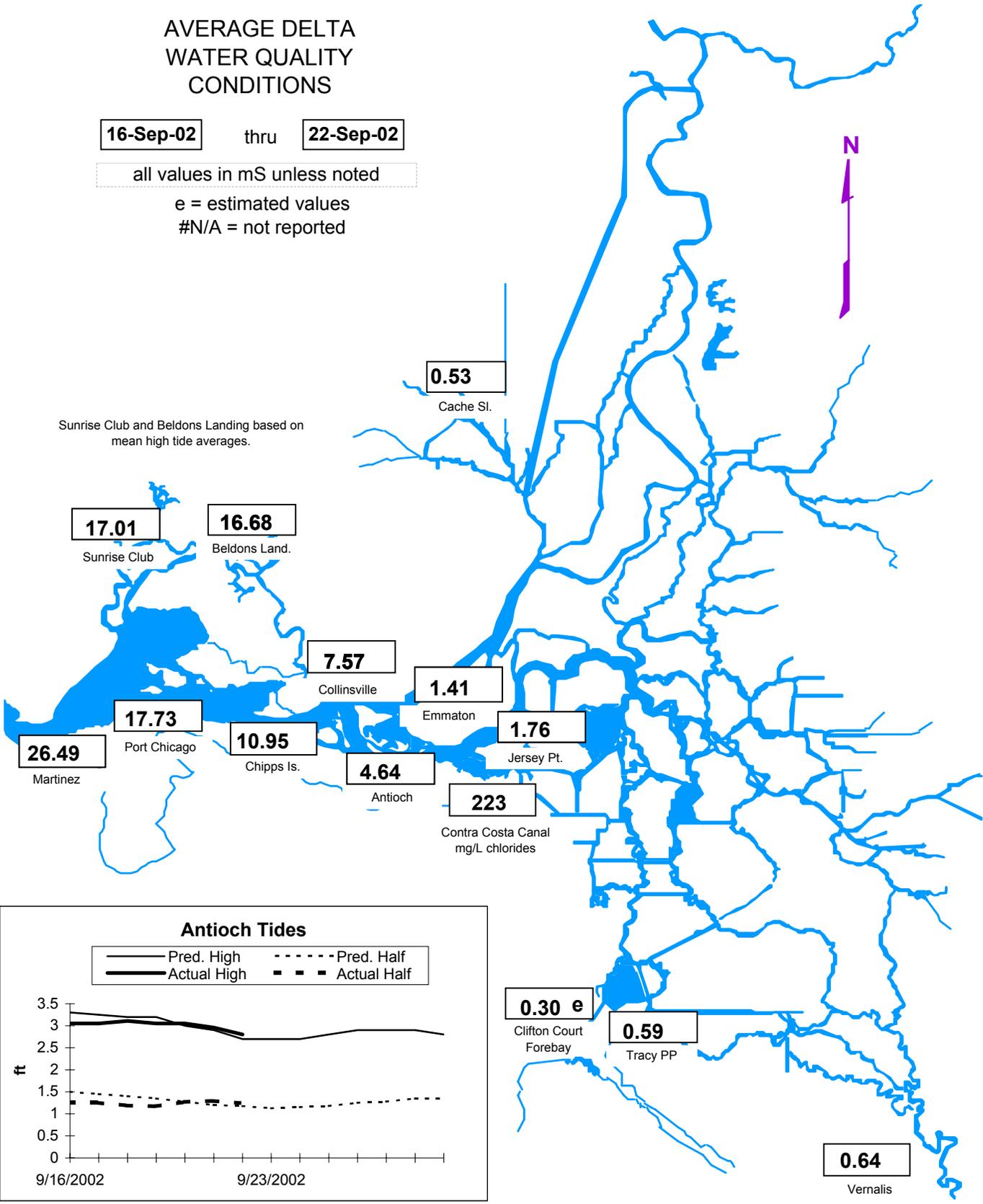


AVERAGE DELTA WATER QUALITY CONDITIONS

16-Sep-02 thru **22-Sep-02**

all values in mS unless noted

e = estimated values
#N/A = not reported



DRAFT

Bay-Delta Standards

DRAFT

Contained in D-1641

CRITERIA	Sep 02	Oct 02	Nov 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. Striped Bass Survival Suisun Marsh Habitat Protection Outflow, X2 River Flows: @ Rio Vista - min. mon. avg. - 7 day average @ Vernalis: Base -min. mon. avg. - 7 day average Pulse Delta Cross Channel Gates 			
	65%		
	3000 cfs	4000 cfs	4500 cfs
	2000 cfs	3600 cfs	3600 cfs
	3000 cfs	4000 cfs	4500 cfs
	2000 cfs	3000 cfs	3500 cfs
		*1000 cfs	
		* Up to an additional 28 TAF	Conditional

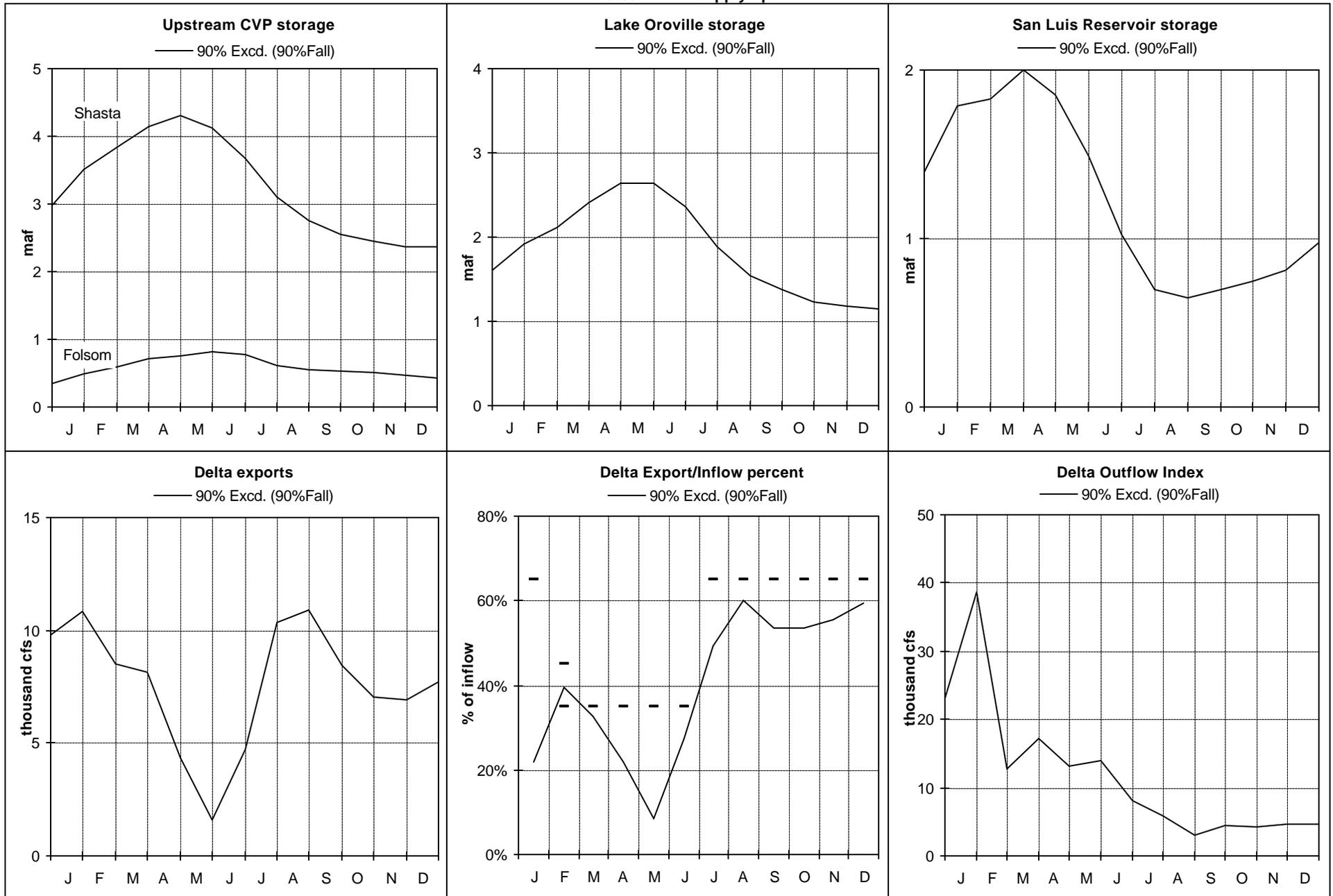
WATER QUALITY STANDARDS

<ul style="list-style-type: none"> Municipal and Industrial All Export Locations 		<= 250 mg/l Cl	
<ul style="list-style-type: none"> Agriculture Southern Delta 		30-day running average EC <= 1.0 mS	
<ul style="list-style-type: none"> Fish and Wildlife San Joaquin River Salinity Suisun Marsh Salinity 		19 mS/cm	15.5 mS/cm for Eastern / 16.5 for Western Marsh stations

Water Year Classification: (May 1 forecast)
 SRI (40-30-30 @ 50%) =6.5 (Dry)
 SJV (60-20-20 @ 75%) =2.3 (Dry)

SWP & CVP WY 2002 Forecasted Operations.

Based on 09/02 water supply update



Flows are monthly averages.

WY 2001/2002 EWA Accounting Summary
Based on September 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																
YCWA										15	60	54	5				135
SGA										0.4	1.2	1.6	1.5	2.0			7
CVP/SWP Reservoirs													20*				20
SOD																37 ⁷	37

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 NOD storage																	0
Xfer NOD - Sacramento River ²		4 ³	11 ³							13 ⁶		22 ⁶	6 ⁶				56
Xfer NOD - San Joaquin River ²		12 ⁴	11 ⁴														23
SOD SWP Surface/GW Purchases		11 ⁵	9 ⁵	12 ⁵						33 ⁷	15 ⁷		13 ⁷				93
Exchange of EWA assets							-9 ¹⁴	-31 ¹⁴			10 ¹⁴	10 ¹⁴					-20
Groundwater pumping SOD																	0
Exchange from CVP to SWP in SL																	0
Total Monthly EWA Assets		30	34	12	0	76	-9	-31	0	46	25	32	19	0	0	0	234

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 NOD storage											43.8 ⁸	21.7 ⁸	0.6 ⁸	4.6 ⁸			71
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	44	22	1	5	0	0	71									

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 ¹³	-28 ¹⁰	-79 ¹⁰	-3							-215
CVP export cuts									-69 ¹¹	-2							-72
Total Expenditures	0	0	0	0	-66	0	-38	-28	-149	-5	0	0	0	0	0	0	-287

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	-59	-79	43	25	32	19	0	0	0	23
CVP in SL	0	0	0	0	0	0	0	0	-69	-2	44	22	1	5	0	0	-1
NOD Storage	45	-19	-26	0	0	0	0	0	0	-3	7	1	19	-4	0	0	20
Groundwater SOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	21
Total Incremental Storage Changes	52	11	8	12	-66	76	-47	-59	-149	38	75	55	38	1	0	37	62

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	38	72	84	17	93	46	-13	-92	-49	-24	8	27	27	27	23	
CVP SL	0	0	0	0	0	0	0	0	-69	-72	-28	-6	-6	-1	-1	-1	
NOD Storage	45	26	0	0	0	0	0	0	0	-3	4	5	24	20	20	20	
Groundwater SOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	37	
EWA Asset Balance	52	64	72	84	17	93	46	-13	-162	-124	-49	6	45	46	46	78	

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)		707	884	1302	1790	1832	1982	1857	1565	995	699	642	675	719	789	955	
Encroachment																	
Total Storage (EWA case)		745	955	1386	1807	1925	2028	1844	1403	874	647	644	696	745	814	976	
MWD Source Shifting	29	-10	-10	-9													
Storage (with MWD source shifting)¹²	764	964	1386	1807	1925	2028	1844	1403	874	647	644	696	745	814	976		

⁰ 2001 NOD Storage = 20(PCWA) + 25(MID). 2002 NOD Storage = 135(YCWA) + 10(SGA).

* EWA is backing water up into Lake Oroville beginning September 14, 2002 (which includes an assumed 20% carriage water loss). SOD equivalent = 16 TAF (not a 1:1 Exchange). Also, this water will reduce the amount of available water stored south of the Delta.

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 2002 YCWA Transfer (Joint place of use)

⁷ 2002 KCWA Transfer (SWP place of use) ⁸ SGA Transfer (CVP place of use)

⁹ An estimated total of 66 TAF has been expended for the 1/5-1/9 curtailment.

¹⁰ Approximately 45 TAF has been expended for 2002 VAMP (28 TAF in April and 17 TAF in May) for the SWP.

¹¹ Approximately 69 TAF has been expended for 2002 VAMP shoulders for the CVP.

¹² SWP-based upon the 9/10/02 DWR's 90% (90% Fall) EWA allocation study

¹³ Conversion from EWA to Project water since San Luis Reservoir was physically full. ¹⁴ A 2:1 exchange program between the SWC and EWA beginning 3/30/02 and ending 4/8/02.