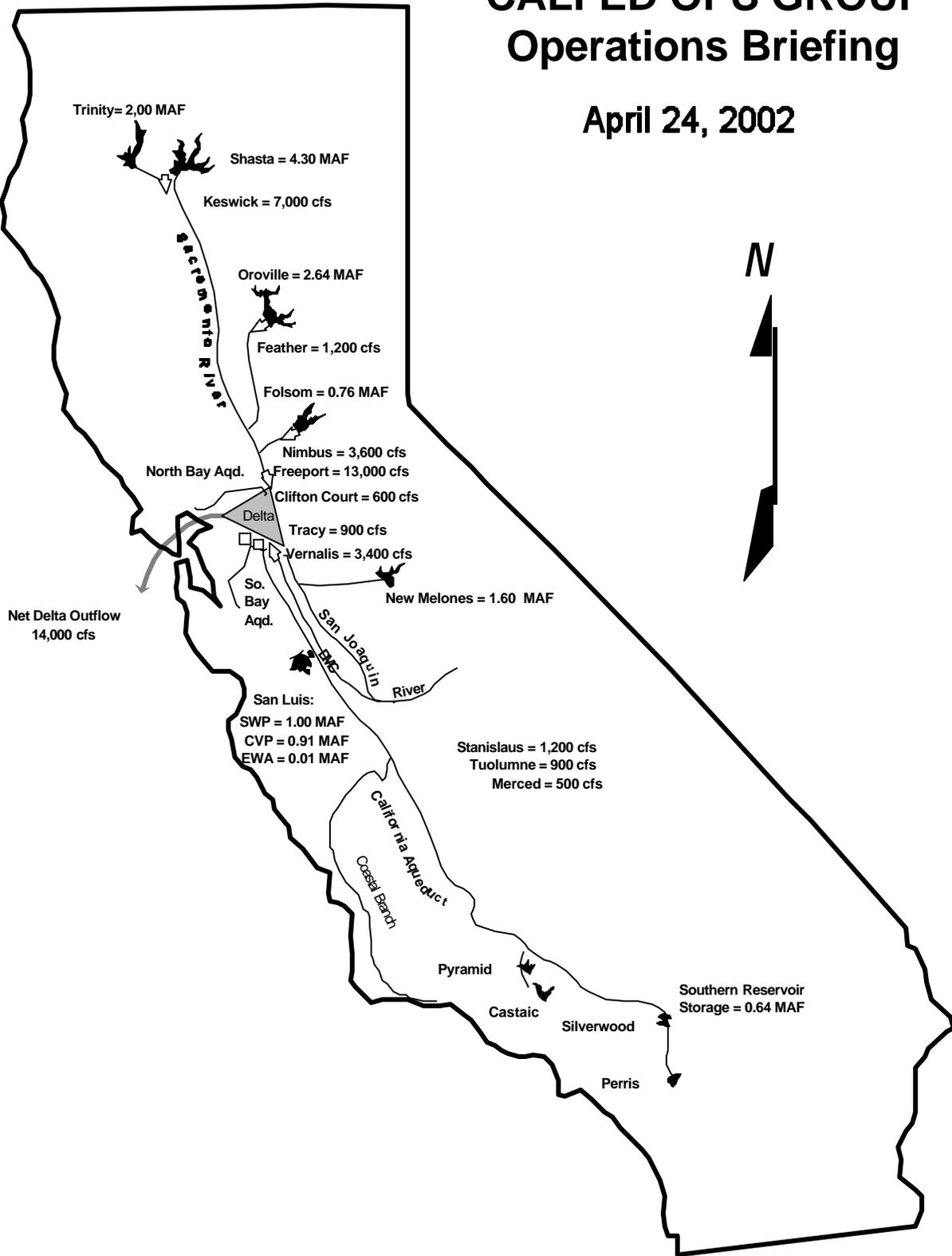


CALFED OPS GROUP Operations Briefing

April 24, 2002



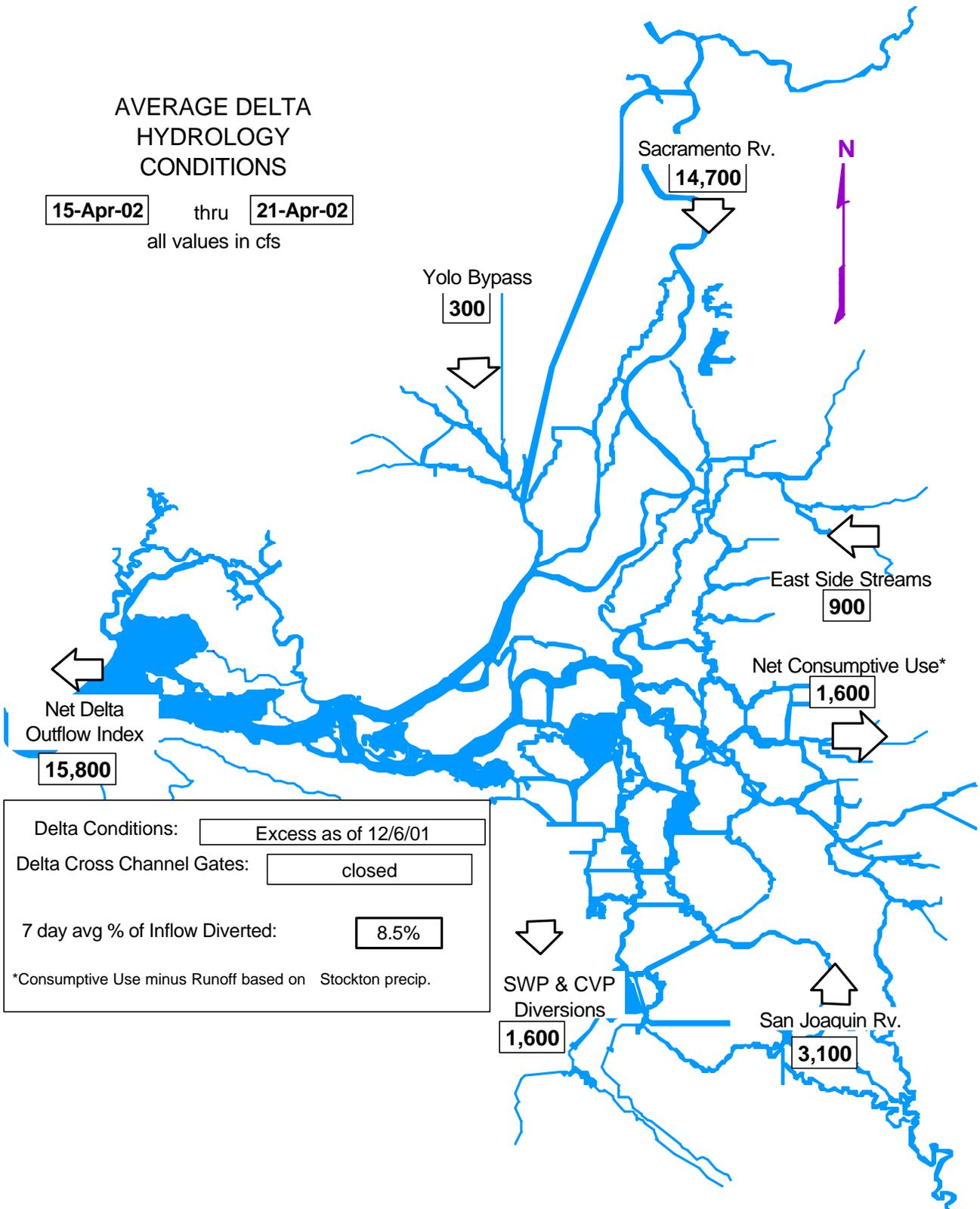
Net Delta Outflow
14,000 cfs

CURRENT SWP/CVP OPERATIONAL STATUS

DATA AS OF
April 23, 2002

AVERAGE DELTA HYDROLOGY CONDITIONS

15-Apr-02 thru **21-Apr-02**
all values in cfs



Delta Conditions:	Excess as of 12/6/01
Delta Cross Channel Gates:	closed
7 day avg % of Inflow Diverted:	8.5%
*Consumptive Use minus Runoff based on Stockton precip.	

AVERAGE DELTA WATER QUALITY CONDITIONS

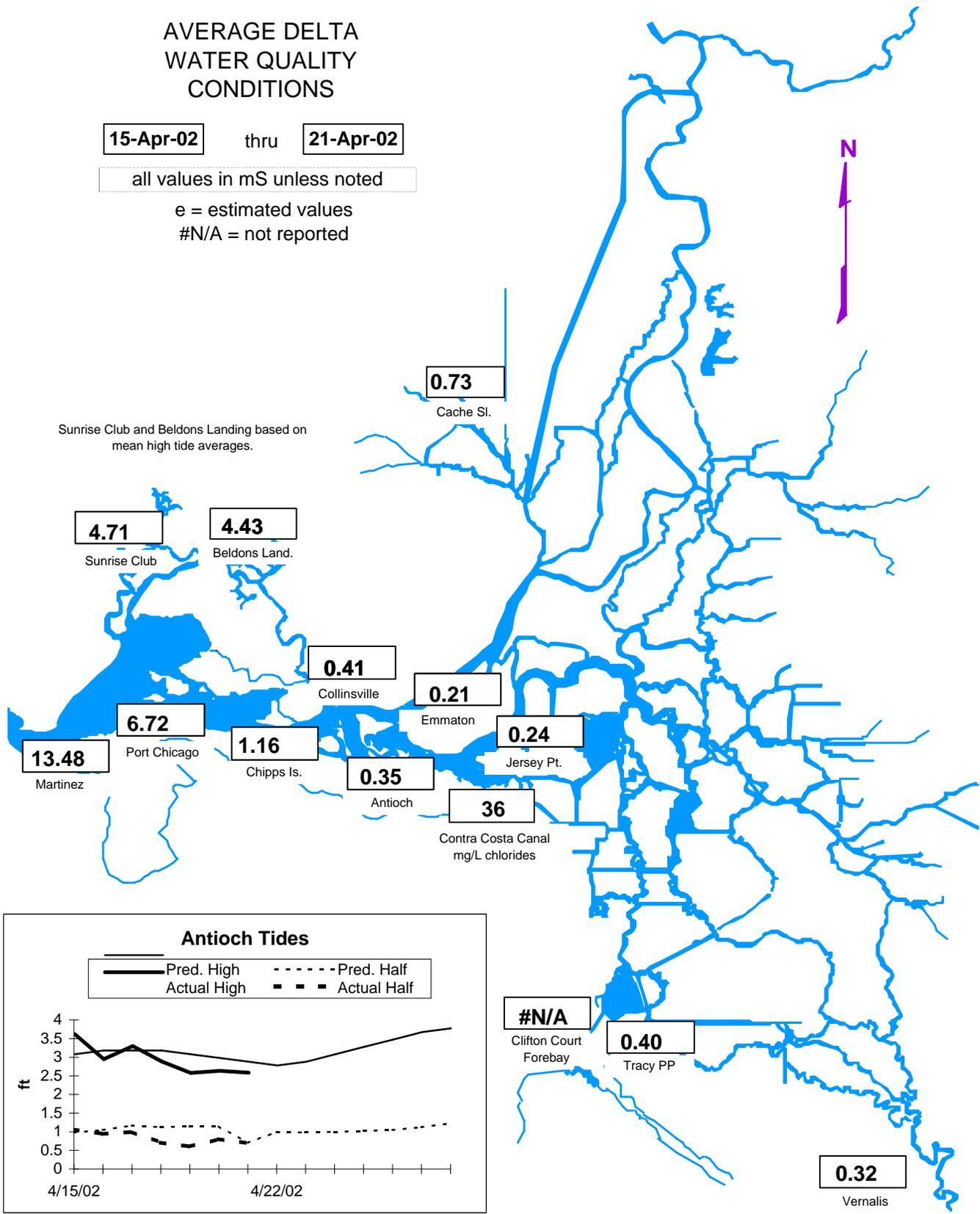
15-Apr-02 thru **21-Apr-02**

all values in mS unless noted

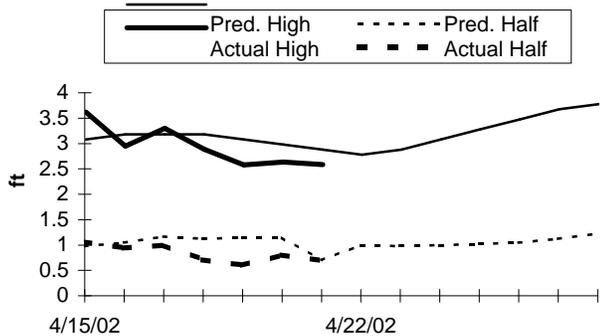
e = estimated values

#N/A = not reported

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



Antioch Tides



DRAFT

Bay-Delta Standards

Contained in D-1641

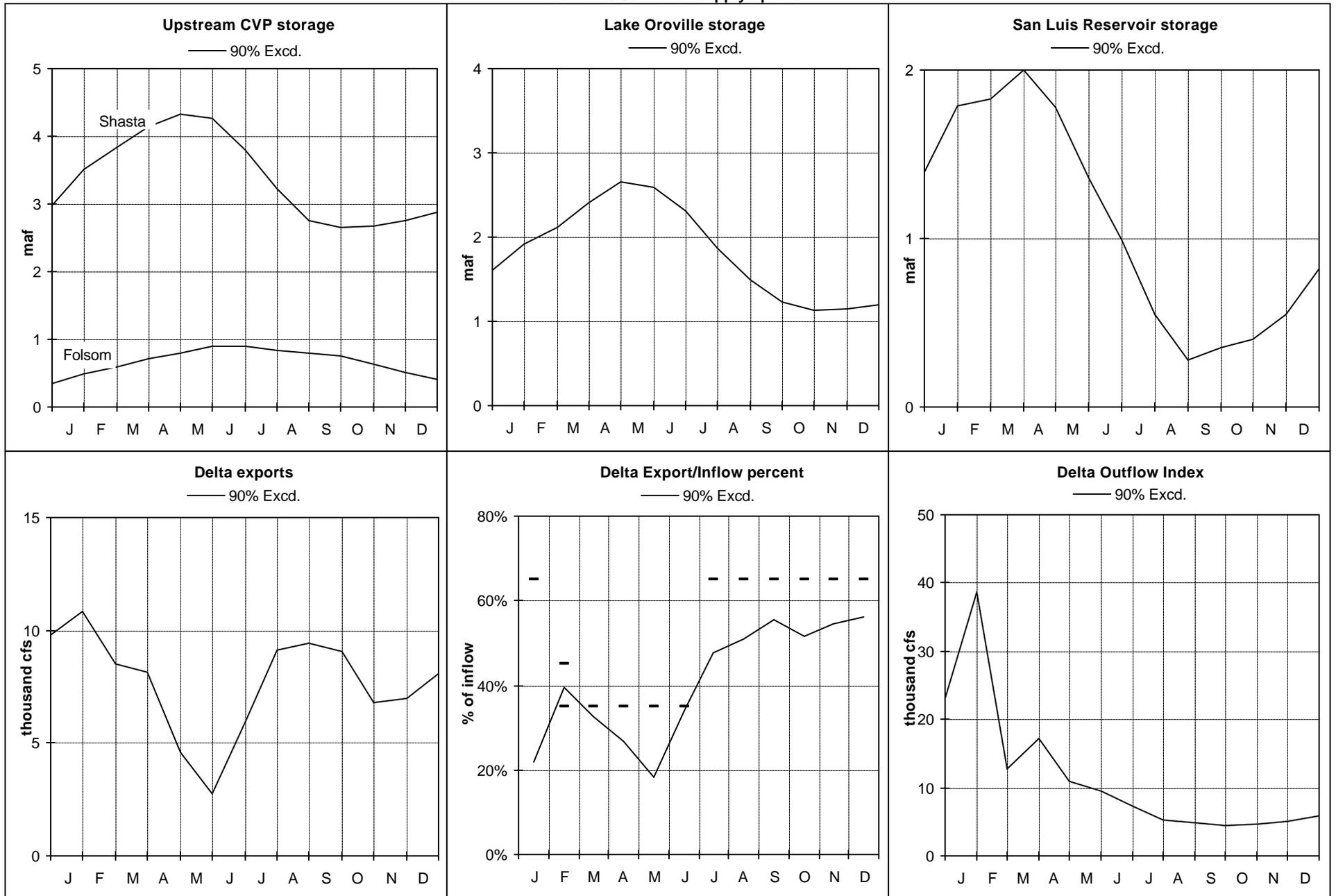
DRAFT

CRITERIA	Apr 2002	May 2002	Jun 2002	
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: <ul style="list-style-type: none"> @ 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			
	X2 at Collinsville - NDOI >= 7100 cfs			
	Chippis Island for 28	Chippis Island for 0- 2 days		
	2280 cfs	2280 cfs		
	1824 cfs	1824 cfs		
	3200 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 	Cl <= 250 mg/l		
Cl <= 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 <= 1.0 mS/cm	30 day running avg. EC <= 0.7 mS/cm	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: (April 1 forecast)
 SRI (40-30-30 @ 50%) = 6.7 MAF (Below Normal)
 SJV (60-20-20 @ 75%) = 2.3 MAF (DRY)

SWP & CVP WY 2002 Forecasted Operations.

Based on 04/02 water supply update



Flows are monthly averages.

WY 2001/2002 EWA Accounting Summary
Based on April 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							95	50	100 ¹²							290
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											30 ¹²	35 ¹²	20 ¹²				85
Xfer NOD purchases - Sacramento River ²		4 ³	11 ³														15
Xfer NOD purchases - San Joaquin River ²		12 ⁵	11 ⁵														23
SOD SWP surface purchases		11 ⁶	9 ⁶	12 ⁶					24 ⁷	24 ⁷	24 ⁷	24 ⁷					130
Exchange of EWA assets							-9 ¹³	-31 ¹³				20 ¹³					-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	54	79	20	0	0	0	314

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											40 ⁴	40 ⁴	25 ⁴	10 ⁴			115
Xfer NOD purchases - Sacramento River ²											1.3 ⁸		7				
Xfer NOD purchases - 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	41	41	26	11	1	0	122									

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 ¹¹	-25	-60	-65							-255
CVP export cuts									-25	-80							-105
Total Expenditures	0	0	0	0	-66	0	-38	-25	-85	-145	0	0	0	0	0	0	-360

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	-56	-36	-41	54	79	20	0	0	0	67
CVP in SL	0	0	0	0	0	0	0	0	-25	-80	41	41	26	11	1	0	17
NOD Storage	45	-19	-26	0	0	0	0	95	50	100	-84	-90	-55	-13	0	0	0
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	39	-11	-21	12	31	-8	-2	1	0	84

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	-10	-46	-86	-32	47	67	67	67	67	
CVP SL	0	0	0	0	0	0	0	0	-25	-105	-64	-22	4	15	17	17	
NOD Storage	45	26	0	0	0	0	0	95	145	245	161	71	17	2	0	0	
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	85	74	54	65	96	88	85	84	84	

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		708	884	1302	1790	1832	1982	1753	1339	850	445	195	278	355	455	707	
Encroachment																	
Total Storage (EWA case)		745	955	1386	1807	1925	2028	1743	1268	659	349	219	350	437	539	791	
MWD Source Shifting	29	-10	-10	-9													
Storage (with MWD source shifting)	764	964	1386	1807	1925	2028	1743	1268	659	349	219	350	437	539	791		

⁰ 2001 NOD Storage = 20(PCWA) + 25(MID). 2002 NOD Storage = 135(YCWA) + 10(SGA). April is 85(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 2002 YCWA Transfer (Joint place of use) ⁵ 2001 MID Transfer (Joint place of use)

⁶ SOD 2001 SWP post lowpoint deliveries = 15(Semiripic/Tulare ID) + 5(Cawelo) + 12(Santa Clar) ⁷ Water acquired from KCWA Interests

⁸ SGA Transfer

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

¹⁰ SWP-based upon the 4/1/02 DWR's 90% exceedence forecast study/CVP-based upon the 4/1/02 USBR's 90% forecast "AprB2 with tools"

¹¹ Conversion from EWA to Project water since San Luis Reservoir was physically full. ¹² Reduction in CVP/SWP exports may allow water to be backed into upstream reservoirs.

¹³ A 2:1 exchange program between the SWC and EWA beginning 3/30/02 and ending 4/8/02.

WY 2001/2002 EWA Accounting Summary
Based on April 1 -- 50% Exceedence Hydrolog

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							95	50	100 ¹²							290
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																	0
Xfer NOD purchases - Sacramento River ²		4 ³	11 ³														15
Xfer NOD purchases - San Joaquin River ²		12 ⁵	11 ⁵														23
SOD SWP surface purchases		11 ⁶	9 ⁶	12 ⁶					35 ⁷	35 ⁷	35 ⁷	35 ⁷					171
Exchange of EWA assets							-9 ¹³	-31 ¹³				20 ¹³					-20
Groundwater pumping SOD																	0
Exchange from CVP to SWP in SL																	0
Total Monthly EWA Assets		30	34	12	0	76	-9	-31	35	35	35	55	0	0	0	0	271

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											25 ⁴	25 ⁴	25 ⁴	10 ⁴			85
Xfer NOD purchases - Sacramento River ²											1.3 ⁸		7				
Xfer NOD purchases - 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	26	26	26	11	1	0	92									

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 ¹¹	-50	-85	-75							-315
CVP export cuts									-10	-120							-130
Total Expenditures	0	0	0	0	-66	0	-38	-50	-95	-195	0	0	0	0	0	0	-445

EWA Monthly 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	-81	-50	-40	35	55	0	0	0	0	-36
CVP in SL	0	0	0	0	0	0	0	0	-10	-120	26	26	26	11	1	0	-38
NOD Storage	45	-19	-26	0	0	0	0	95	50	100	-31	-31	-31	-13	0	0	136
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	14	-10	-60	30	50	-5	-2	1	0	61

EWA 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	-35	-85	-126	-91	-36	-36	-36	-36	-36	
CVP SL	0	0	0	0	0	0	0	0	-10	-130	-104	-77	-51	-40	-38	-38	
NOD Storage	45	26	0	0	0	0	0	95	145	245	214	183	152	138	136	136	
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	60	50	-11	19	69	65	62	61	61	

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		708	884	1302	1790	1832	1982	1741	1317	861	547	346	465	501	593	829	
Encroachment																	
Total Storage (EWA case)		745	955	1386	1807	1925	2028	1706	1222	605	353	232	377	425	519	754	
MWD Source Shifting	29	-10	-10	-9						25	25	18		-25	-25	-18	
Storage (with MWD source shifting)	764	964	1386	1807	1925	2028	1706	1222	630	403	300	445	468	537	754		

⁰ 2001 NOD Storage = 20(PCWA) + 25(MID). 2002 NOD Storage = 135(YCWA) + 10(SGA). April is 85(YCWA) + 10(SGA). YCWA has firm 30 TAF; Exercised options for additional

¹ Aqueduct conveyance and evaporation losses are not included.

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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.

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⁶ SOD 2001 SWP post lowpoint deliveries = 15(Semiotropic/Tulare ID) + 5(Cawelo) + 12(Santa Clara) ⁷ Water acquired from KCWA Interests

⁸ 2002 SGA Transfer ⁹ An estimated total of 66 TAF has been expended for the 1/5-1/9 curtailment.

¹⁰ Based upon the 4/1/02 DWR's 90% exceedence forecast study. ¹¹ Conversion from EWA to Project water since San Luis Reservoir was physically full.

¹² Reduction in CVP/SWP exports may allow water to be backed into upstream reservoirs. ¹³ A 2:1 exchange program between the SWC and EWA beginning 3/30/02 and ending 4/8/02.