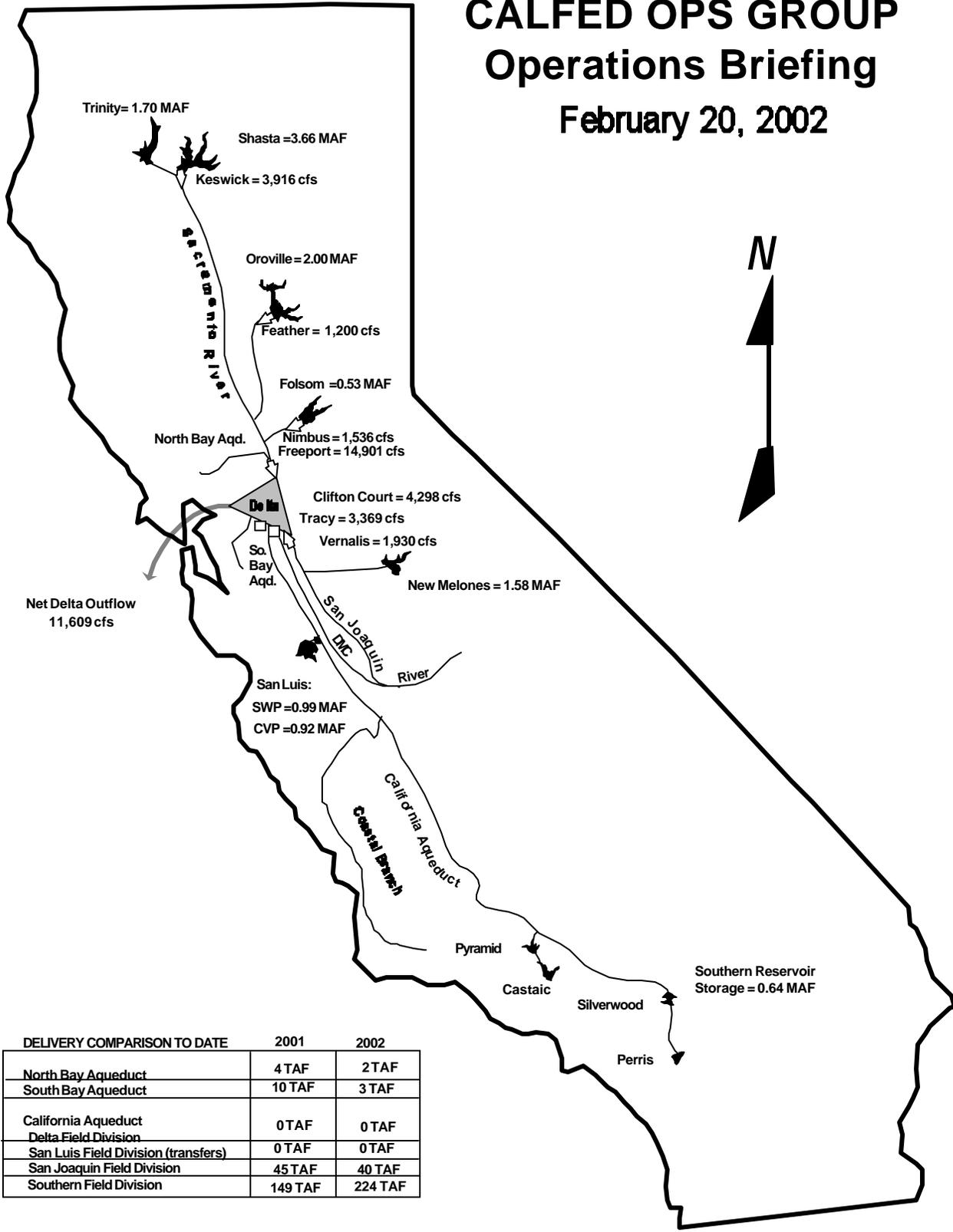


CALFED OPS GROUP Operations Briefing February 20, 2002



Net Delta Outflow
11,609 cfs

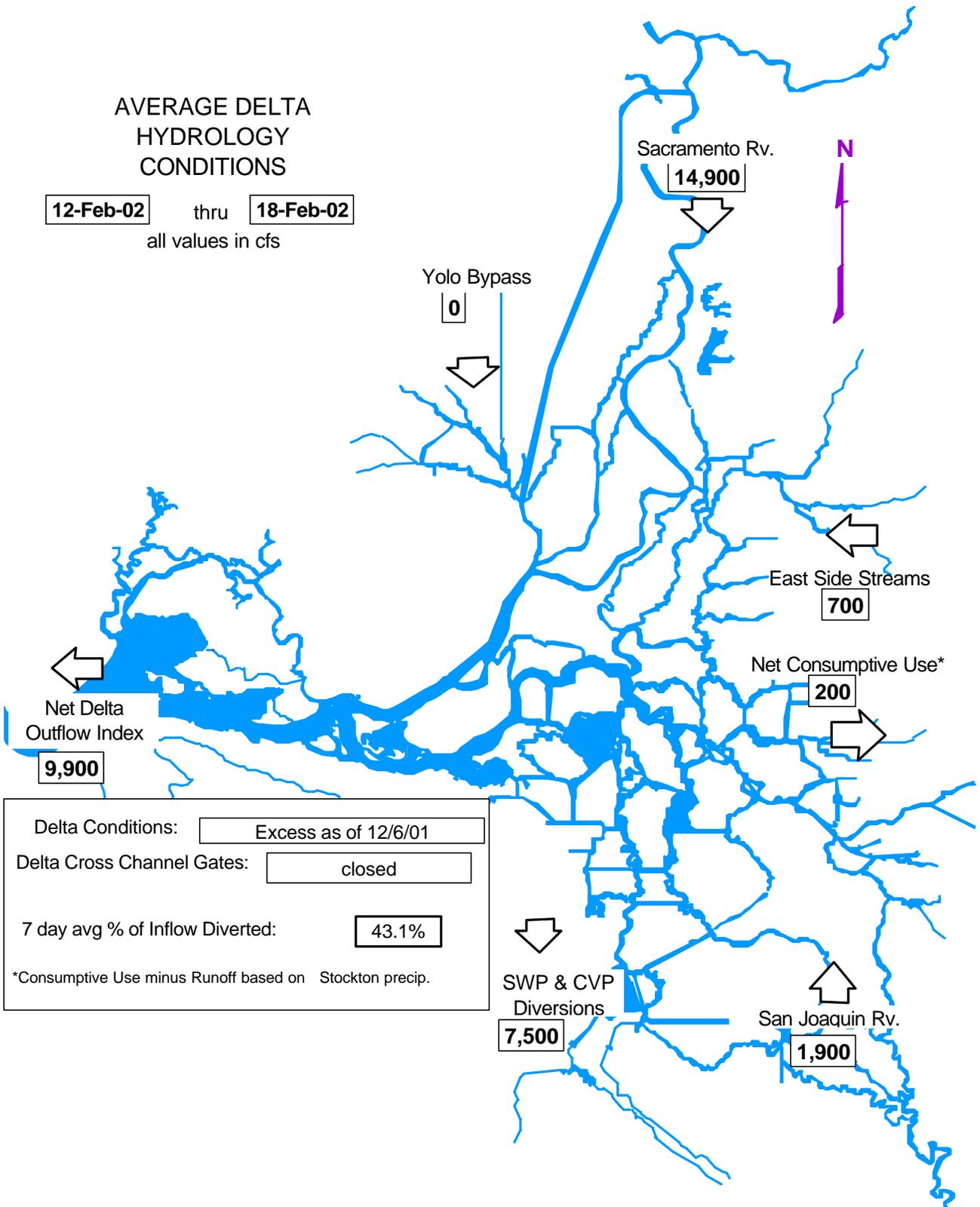
DELIVERY COMPARISON TO DATE	2001	2002
North Bay Aqueduct	4 TAF	2 TAF
South Bay Aqueduct	10 TAF	3 TAF
California Aqueduct	0 TAF	0 TAF
Delta Field Division	0 TAF	0 TAF
San Luis Field Division (transfers)	0 TAF	0 TAF
San Joaquin Field Division	45 TAF	40 TAF
Southern Field Division	149 TAF	224 TAF

CURRENT SWP/CVP OPERATIONAL STATUS

DATA AS OF
February 19, 2002

AVERAGE DELTA HYDROLOGY CONDITIONS

12-Feb-02 thru **18-Feb-02**
all values in cfs



Delta Conditions:	Excess as of 12/6/01
Delta Cross Channel Gates:	closed
7 day avg % of Inflow Diverted:	43.1%
*Consumptive Use minus Runoff based on Stockton precip.	

AVERAGE DELTA WATER QUALITY CONDITIONS

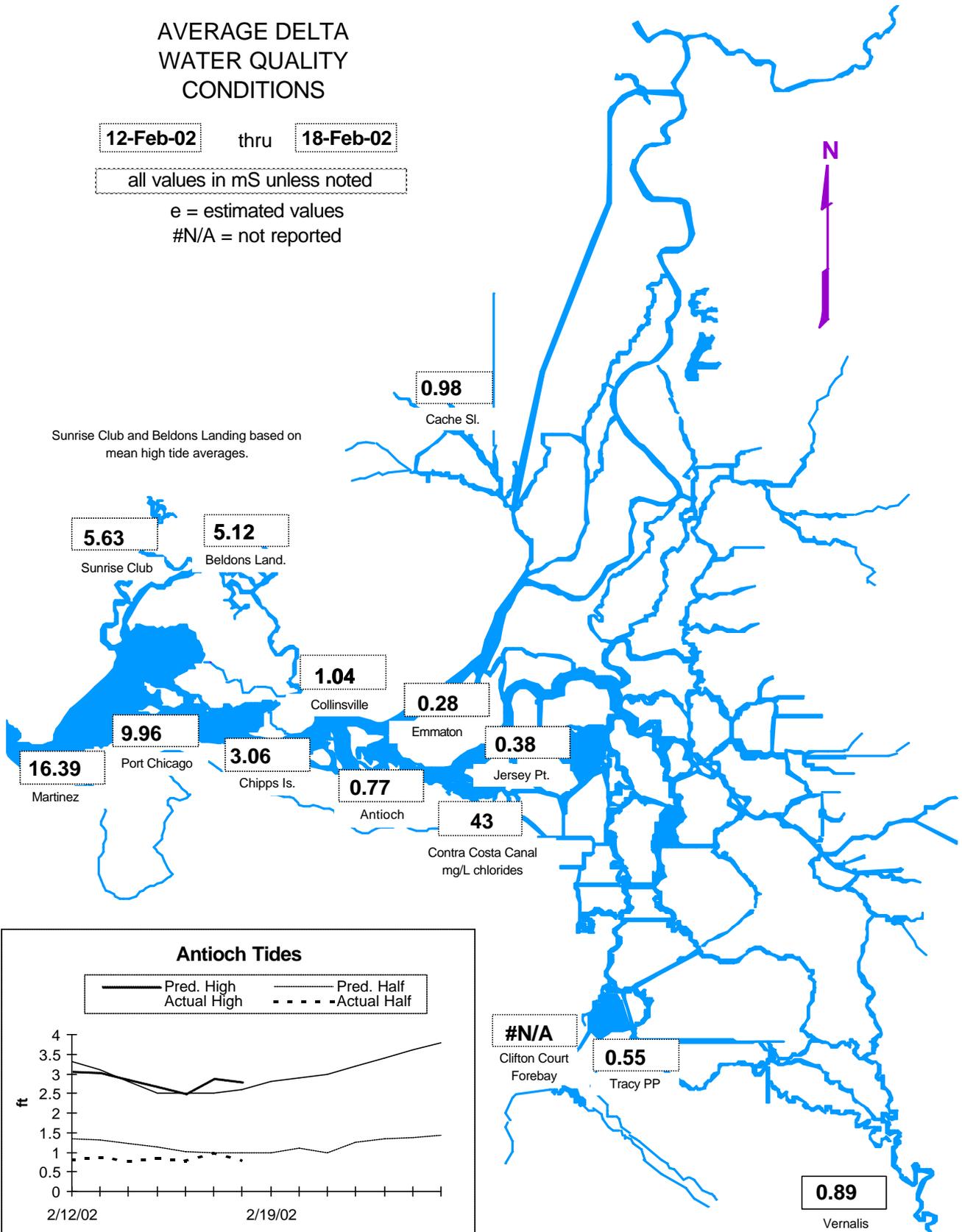
12-Feb-02 thru **18-Feb-02**

all values in mS unless noted

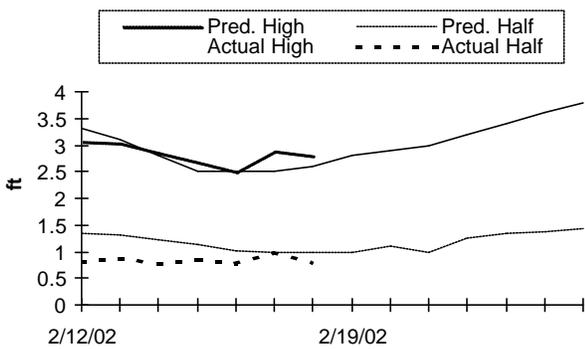
e = estimated values

#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	Feb 2002	Mar 2002	Apr 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. Striped Bass Survival 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 			1,500 cfs or 100% of 3-day avg. Vernalis flow
	35%	35%	35%
		*~ 31 Days at Chipps	*~ 24 Days at Chipps
	Chipps Island for 28 days	X2 at Collinsville - NDOL >= 7100 cfs	
		* Projected requirement based on 90% exceedence 8RI's from FEB 1 forecast	
	2280 cfs	2280 cfs	2280 cfs
	1824 cfs	1824 cfs	1824 cfs
			5158 cfs
		Closed	

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 0.45 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
	8.0 mhtEC	8.0 mhtEC	11.0 mhtEC

Water Year Classification: Above Normal (Based on forecast, 2/1/2002)

SRI (40-30-30 @ 50%) = 7.4 MAF

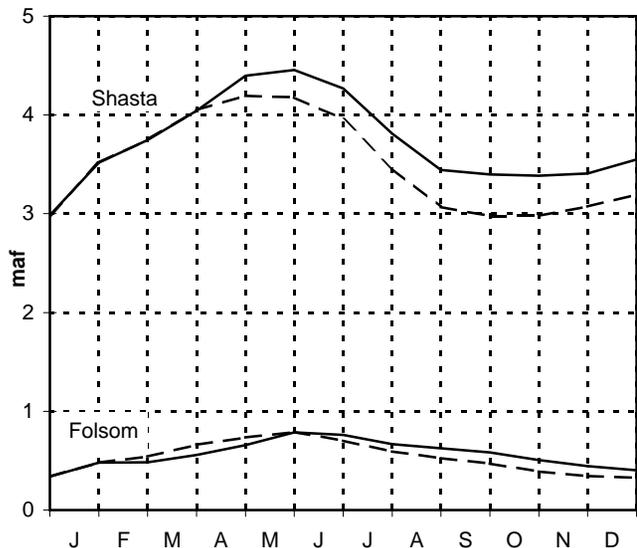
SJV (60-20-20 @ 75%) = 2.5 MAF

SWP & CVP CY 2002 Forecasted Operations.

Based on Feb 1 Snow Survey Forecast

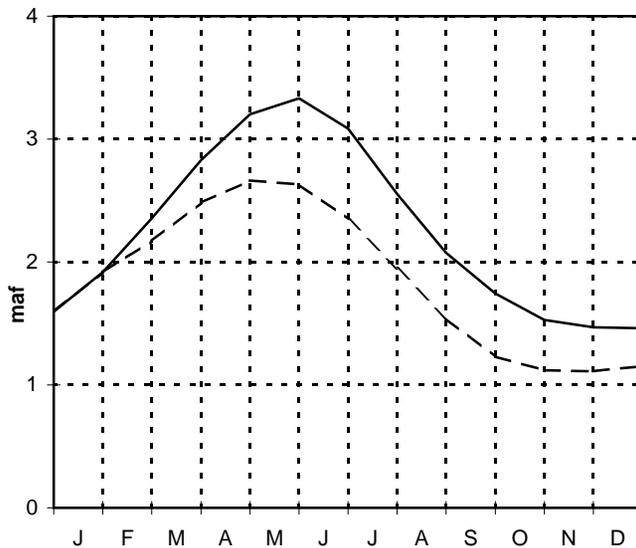
Upstream CVP storage

--- 90% Excd. — 50% Excd.



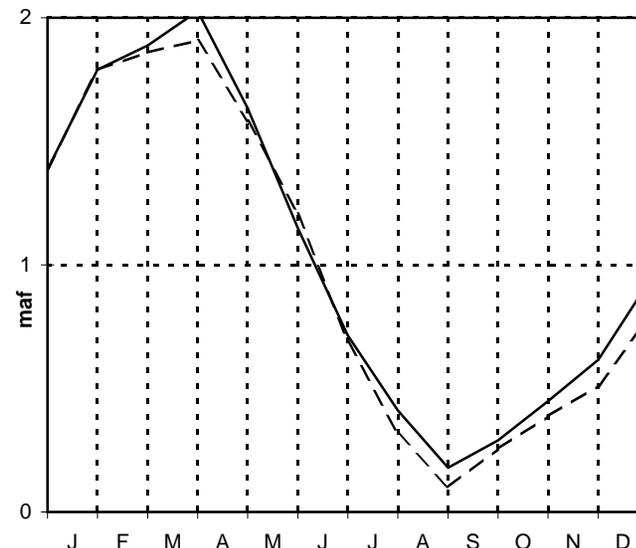
Lake Oroville storage

--- 90% Excd. — 50% Excd.



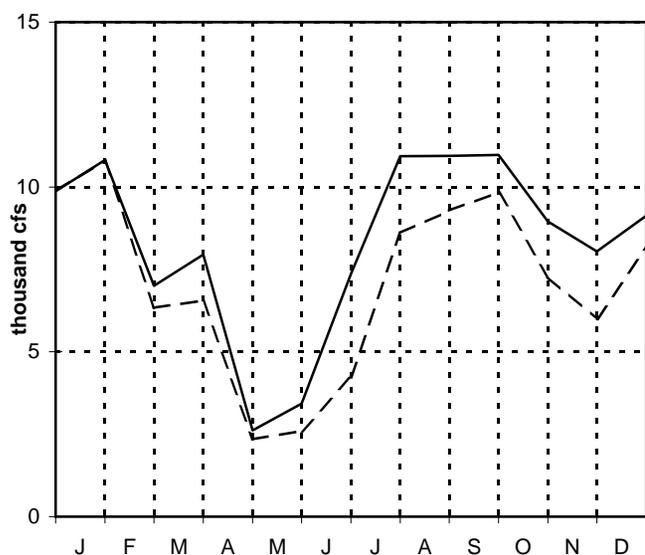
San Luis Reservoir storage

--- 90% Excd. — 50% Excd.



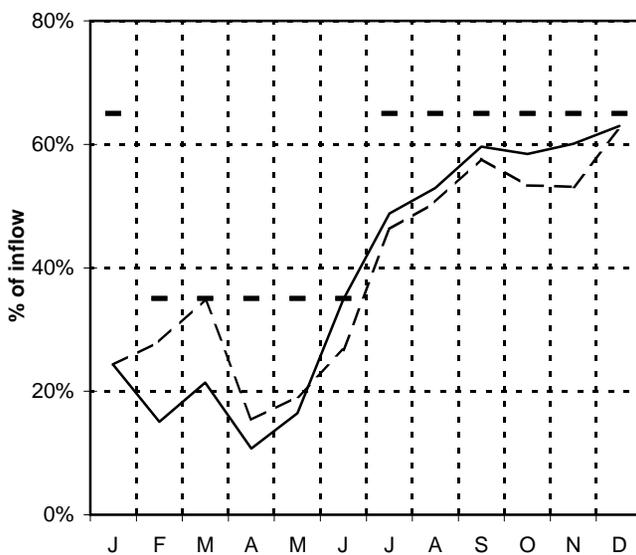
Delta exports

--- 90% Excd. — 50% Excd.



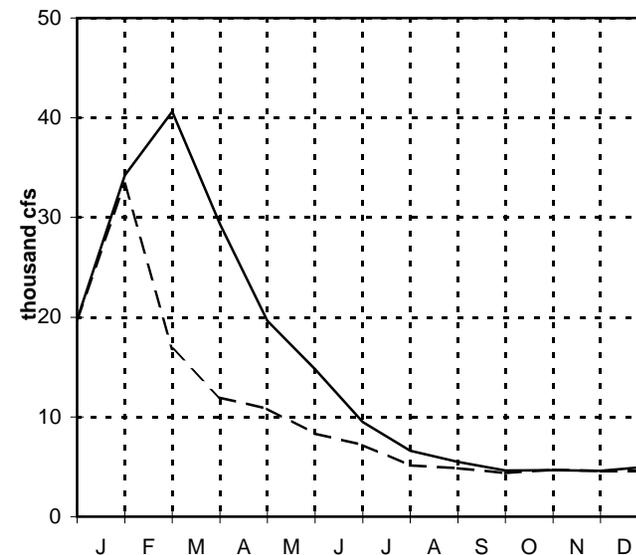
Delta Export/Inflow percent

--- 90% Excd. — 50% Excd.



Net Delta Outflow Index

--- 90% Excd. — 50% Excd.



Based on 2/2002 SWP & CVP operations studies. Flows are monthly averages.

WY 2001/2002 EWA Accounting Summary
Based on February 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						40	55									140
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			49											52
EWA share of SWP gain		4															4
Project Pumping to reduce EWA debt																	0
JPOD using excess flows																	0
JPOD using excess NOD storage																	0
Xfer NOD purchases - Sacramento River ²		2 ³	13 ³								36 ⁴	36 ⁴					87
Xfer NOD purchases - San Joaquin River ²		12 ⁵	9 ⁵														21
SOD SWP surface purchases		11 ⁶	9 ⁶	12 ⁶						77 ⁷							109
Groundwater pumping SOD																	0
Exchange from CVP to SWP in SL																	0
Total Monthly EWA Assets		30	34	12	0	49	0	0	0	77	36	36	0	0	0	0	274

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																	0
Xfer NOD purchases - Sacramento River ²											5 ⁸	1 ⁸	1 ⁸	1 ⁸	1 ⁸		7
Xfer NOD purchases - San Joaquin River ²																	0
SOD federal surface purchases																	0
Groundwater pumping																	0
Exchange from SWP to CVP in SL																	0
Total Monthly EWA Assets		0	5	1	1	1	1	0	7								

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	-50	-50	-25	-25								-216
CVP export cuts																	0
Total Expenditures		0	0	0	-66	-50	-50	-25	-25	0	-216						

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	-1	-50	-25	-25	77	36	36	0	0	0	0	65
CVP in SL	0	0	0	0	0	0	0	0	0	0	5	1	1	1	1	0	7
NOD Storage	45	-17	-27	0	0	0	40	55	0	0	-48	-43	-1	-1	-1	0	3
Groundwater SOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Incremental Storage Changes	52	13	7	12	-66	-1	-10	30	-25	77	-7	-6	0	0	0	0	75

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	84	17	16	-34	-59	-84	-7	29	65	65	65	65	65	
CVP SL	0	0	0	0	0	0	0	0	0	0	5	5	6	6	7	7	
NOD Storage	45	28	1	1	1	1	41	96	96	96	48	5	4	4	3	3	
Groundwater SOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EWA Asset Balance	52	65	73	85	18	17	7	37	12	89	82	76	75	75	75	75	

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	1860	1909	1582	1207	688	317	101	255	388	511	782	
Encroachment																	
Total Storage (EWA case)		745	955	1386	1807	1876	1875	1523	1123	681	351	172	326	460	583	855	
MWD Source Shifting	29	-10	-10	-9													
Storage (with MWD source shifting)		764	964	1386	1807	1876	1875	1523	1123	681	351	172	326	460	583	855	

⁰ 2001 NOD Storage = 20(PCWA) + 25(MID). 2002 NOD Storage = 85(YCWA) + 10(SGA). March is 30(YCWA) + 10(SGA).

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 ⁴ 2002 YCWA Transfer ⁵ 2001 MID Transfer (purchased 25 TAF; received about 24 TAF)

⁶ SOD 2001 SWP post lowpoint deliveries = 15(Semiotic/Tulare ID) + 5(Cawelo) + 12(Santa Clara)

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 Based upon the 2/7/02 DWR's 90% allocation analysis study.

WY 2001/2002 EWA Accounting Summary
Based on February 1 -- 50% 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						40	55									140
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			49											52
EWA share of SWP gain		4															4
Project Pumping to reduce EWA debt																	0
JPOD using excess flows																	0
JPOD using excess NOD storage																	0
Xfer NOD purchases - Sacramento River ²		2 ³	13 ³								20 ⁴	20 ⁴	20 ⁴	12 ⁴			87
Xfer NOD purchases - San Joaquin River ²		12 ⁵	9 ⁵														21
SOD SWP surface purchases		11 ⁶	9 ⁶	12 ⁶						145 ⁷							177
Groundwater pumping SOD																	0
Exchange from CVP to SWP in SL																	0
Total Monthly EWA Assets		30	34	12	0	49	0	0	0	145	20	20	20	12	0	0	342

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																	0
Xfer NOD purchases - Sacramento River ²											5 ⁸	1 ⁸	1 ⁸	1 ⁸	1 ⁸		7
Xfer NOD purchases - San Joaquin River ²																	0
SOD federal surface purchases																	0
Groundwater pumping																	0
Exchange from SWP to CVP in SL																	0
Total Monthly EWA Assets	0	5	1	1	1	1	0	7									

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	-50	-50	-50	-100	-50							-366
CVP export cuts																	0
Total Expenditures	0	0	0	0	-66	-50	-50	-50	-100	-50	0	0	0	0	0	0	-366

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	-1	-50	-50	-100	95	20	20	20	12	0	0	-17
CVP in SL	0	0	0	0	0	0	0	0	0	0	5	1	1	1	1	0	7
NOD Storage	45	-17	-27	0	0	0	40	55	0	0	-29	-24	-24	-15	-1	0	2
Groundwater SOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Incremental Storage Changes	52	13	7	12	-66	-1	-10	5	-100	95	-4	-4	-4	-2	0	0	-8

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	84	17	16	-34	-84	-184	-89	-69	-49	-29	-17	-17	-17	
CVP SL	0	0	0	0	0	0	0	0	0	0	5	5	6	6	7	7	
NOD Storage	45	28	1	1	1	1	41	96	96	96	67	43	19	4	3	3	
Groundwater SOD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
EWA Asset Balance	52	65	73	85	18	17	7	12	-88	7	3	-1	-4	-7	-7	-7	

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)		708	884	1302	1790	1888	2027	1635	1148	714	411	179	290	448	616	927	
Encroachment																	
Total Storage (EWA case)		745	955	1386	1807	1905	1994	1551	964	625	347	135	267	438	606	917	
MWD Source Shifting	29	-10	-10	-9						25	25			-25	-25		
Storage (with MWD source shifting)¹⁰		764	964	1386	1807	1905	1994	1551	964	650	397	185	317	463	606	917	

⁰ 2001 NOD Storage = 20(PCWA) + 25(MID). 2002 NOD Storage = 85(YCWA) + 10(SGA). March is 30(YCWA) + 10(SGA).

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 ⁴ 2002 YCWA Transfer ⁵ 2001 MID Transfer (purchased 25 TAF; received about 24 TAF)

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 27/02 DWR's 50% exceedence forecast study.