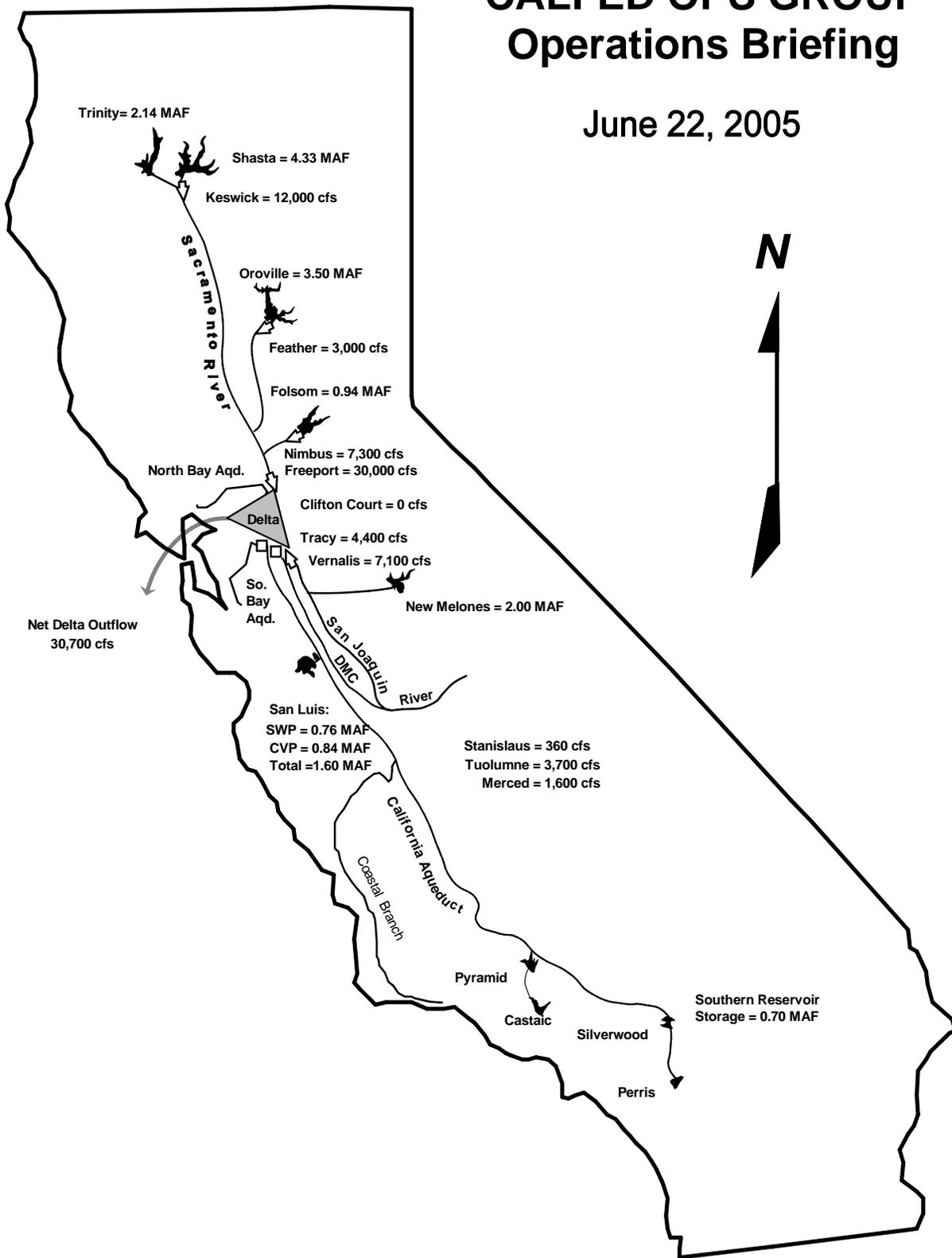


# CALFED OPS GROUP Operations Briefing

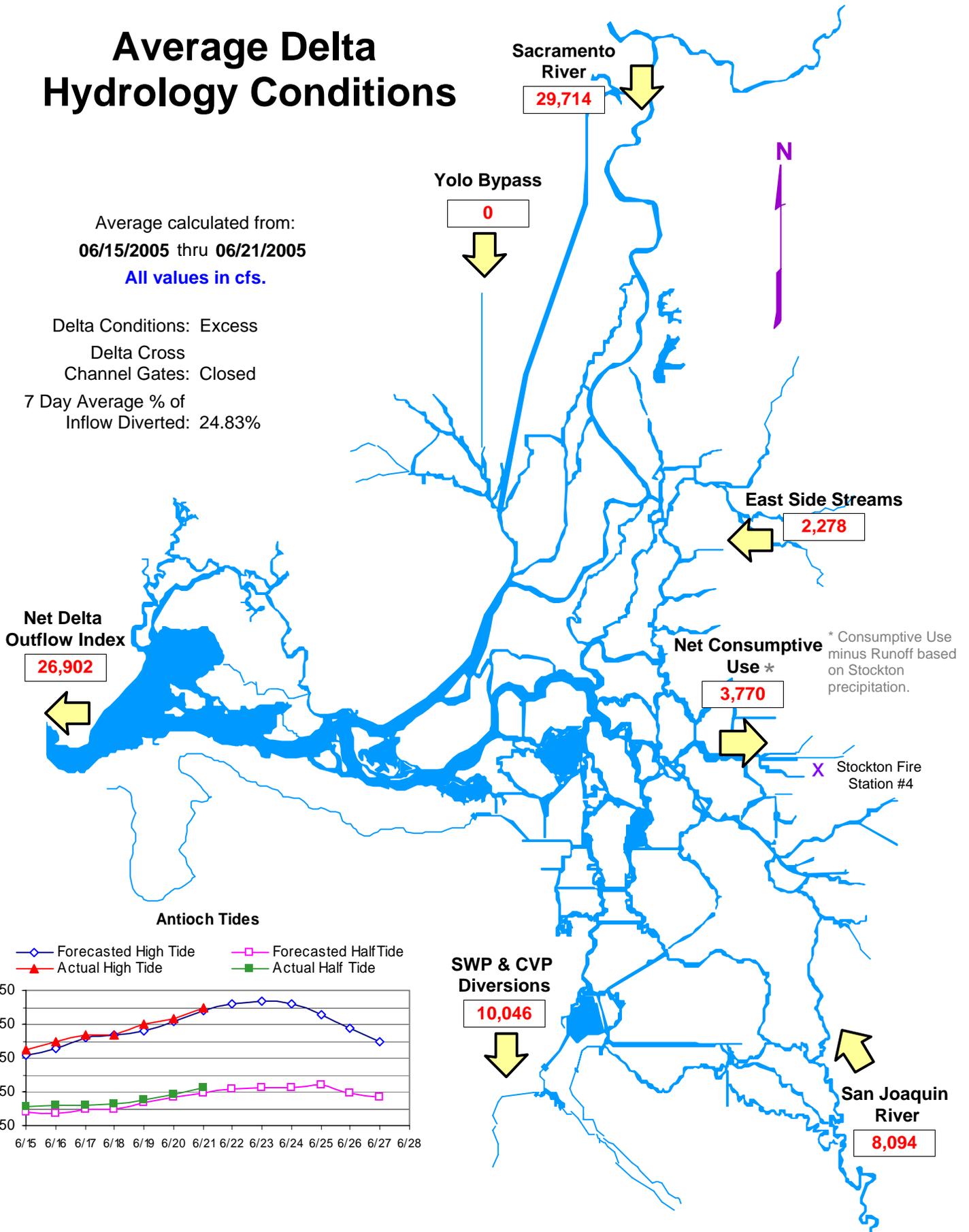
June 22, 2005



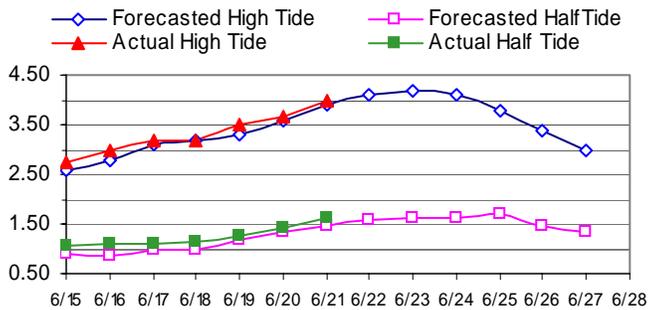
# Average Delta Hydrology Conditions

Average calculated from:  
**06/15/2005** thru **06/21/2005**  
 All values in cfs.

Delta Conditions: Excess  
 Delta Cross  
 Channel Gates: Closed  
 7 Day Average % of  
 Inflow Diverted: 24.83%

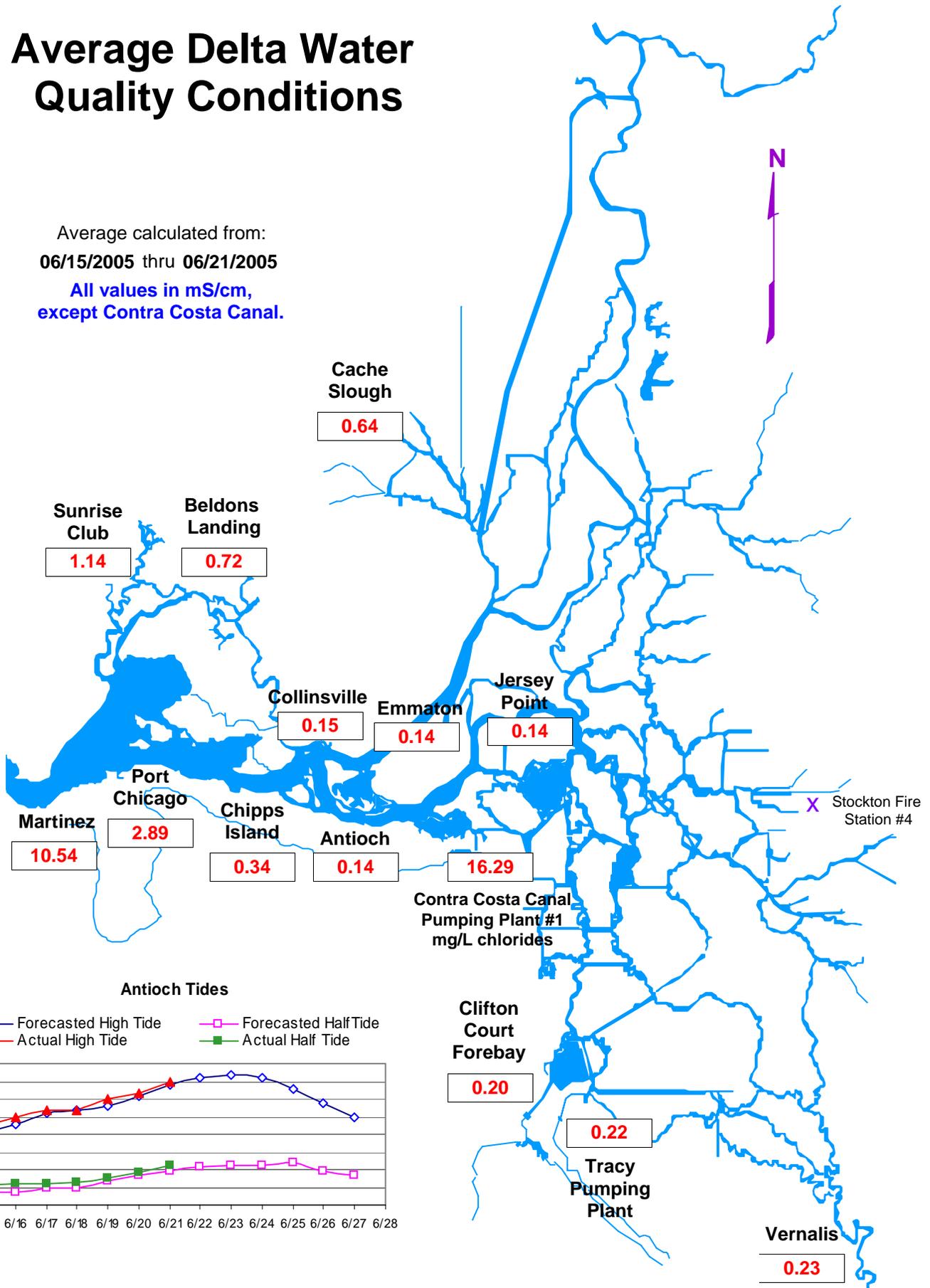


**Antioch Tides**

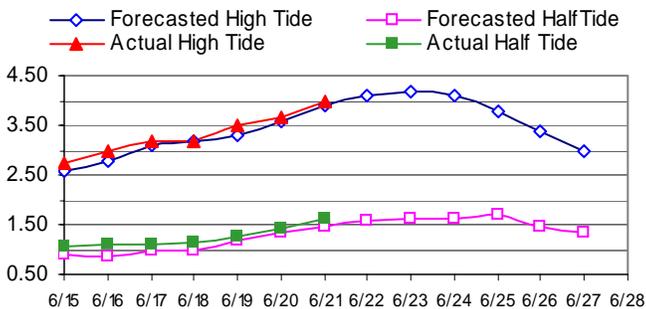


# Average Delta Water Quality Conditions

Average calculated from:  
**06/15/2005** thru **06/21/2005**  
 All values in **mS/cm**,  
 except **Contra Costa Canal**.



**Antioch Tides**



**DRAFT**

# Bay-Delta Standards

Contained in D-1641

**DRAFT**

CRITERIA	Jun 05	Jul 05	Aug 05
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**FLOW/OPERATIONAL**

<ul style="list-style-type: none"> <li>• Fish and Wildlife</li> <li>Export/Inflow Ratio</li> <li>Minimum Outflow - mon. - 7 day avg.</li> <li>Habitat Protection Outflow, X2</li> <li>River Flows:</li> <li>@ Rio Vista - min. mon. avg. - 7 day average</li> <li>@ Vernalis: Base -min. mon. avg. - 7 day average</li> <li>Delta Cross Channel Gates</li> </ul>	<p style="text-align: center;">35%</p> <hr/> <p style="text-align: center;">30 days at Chipps 28 days at Port Chicago</p> <hr/> <p style="text-align: center;">3420 cfs</p> <hr/> <p style="text-align: center;">2736 cfs</p> <hr/> <p style="text-align: center;">Gates may close 14 days from May 21 - June 15 up to 4 consec. days</p>	<p style="text-align: center;">65%</p> <hr/> <p style="text-align: center;">6500 cfs</p> <hr/> <p style="text-align: center;">5200 cfs</p> <hr/>	<p style="text-align: center;">4000 cfs</p> <hr/> <p style="text-align: center;">3000 cfs</p>
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**WATER QUALITY STANDARDS**

<ul style="list-style-type: none"> <li>• Municipal and Industrial</li> <li>All Export Locations</li> <li>Contra Costa Canal</li> </ul>		<p>Cl &lt;= 250 mg/l</p> <p>Cl &lt;= 150 mg/l for 175 days ( 172 days have been met )</p>	
<ul style="list-style-type: none"> <li>• Agriculture</li> <li>Western/Interior Delta</li> <li>Southern Delta</li> </ul>		<p>Max 14-dm &lt;= 0.45 mS/cm EC ( June 21 - Aug 15; Emmaton &lt;=1.14 mS/cm, Jersey &lt;= 0.74 mS/cm EC.)</p> <p>30-day running average EC &lt;= 0.7mS</p>	
<ul style="list-style-type: none"> <li>• Fish and Wildlife</li> <li>San Joaquin River Salinity</li> <li>Suisun Marsh Salinity</li> </ul>			

**Water Year Classification: (May 1 forecast)**

SRI (40-30-30 @ 50%) = 7.4 (Below Normal)      May 8RI: 3.190 MAF

SJV (60-20-20 @75%) = 4.2 (Wet)

WY 2004/2005 EWA Accounting Summary  
 Based upon May Operations Study - 90% Exceedance Hydrology  
**Assumptions:** SWP Allocation - 90%; NOD Purchases - 72 TAF; SOD Purchases - 163.5 TAF  
**(Pre-VAMP shoulder started on 4/17/05; VAMP started on 5/1/05)**

		EWA NOD and SOD Assets ((+ = Purchases) and (- = Releases))																
1	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
<b>TOTAL WY 2004/2005 NOD</b>																		
NOD (Oroville)				6.2 <sup>5</sup>				62.0 <sup>11</sup>	-6.2 <sup>5</sup>		10 <sup>12</sup>						72.0	
NOD (non-Oroville) <sup>0</sup>		18.7 <sup>4</sup>															0.0	
YCWA <sup>3 &amp; 11</sup>	0.9 <sup>3</sup>	-0.9 <sup>3</sup>						62.0 <sup>11</sup>				-28.8 <sup>11</sup>	-27.0 <sup>11</sup>	-6.2 <sup>11</sup>			0.0	
PCWA (released into Folsom)	7.9 <sup>4</sup>	7.9 <sup>4</sup>	2.9 <sup>4</sup>														18.7	
Instream Uses/Non-Capturable Water					-15.4 <sup>15</sup>	-3.3 <sup>15</sup>											-18.7	
SFWP <sup>5</sup>				6.2 <sup>5</sup>					-6.2 <sup>5</sup>								0.0	
MID <sup>12</sup>											10.0 <sup>12</sup>						0.0	
<b>TOTAL WY 2004/2005 SOD</b>																		
SOD (KCWA) <sup>13 &amp; 16</sup>										163.5 <sup>13 14 16 17</sup>							163.5	
SOD (SCVWD) <sup>14</sup>								29.7 <sup>13</sup>			60.0 <sup>16</sup>						89.7	
SOD (MWD) <sup>17</sup>								23.8 <sup>14</sup>									23.8	
											50.0 <sup>17</sup>						50.0	

		EWA Asset Acquisition in SWP San Luis <sup>1</sup>																
2	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
E/I Relaxation																	0.0	
EWA share of SWP gain			0.29														0.3	
Project Pumping to reduce EWA debt						34.5											34.5	
JPOD using excess flows																	0.0	
JPOD using NOD storage																	0.0	
Xfer NOD - Sacramento River <sup>2</sup>		0.9 <sup>3</sup>									15.0	23.0 <sup>11</sup>	21.6 <sup>11</sup>	5.0 <sup>11</sup>			65.4	
Xfer NOD - San Joaquin River <sup>2</sup>														9.0 <sup>12</sup>			9.0	
SOD SWP Surface/GW Purchases										38.5 <sup>13 14</sup>	55.0 <sup>16 17</sup>	55.0 <sup>16 17</sup>	15.0 <sup>14</sup>				163.5	
Exchange of EWA assets																	0.0	
Groundwater pumping SOD																	0.0	
Exchange from CVP to SWP in SL																	0.0	
<b>Total Monthly EWA Assets</b>		0.9	0.3	0.0	0.0	34.5	0.0	0.0	0.0	0.0	53.5	78.0	76.6	29.0	0.0	0.0	272.7	

		EWA Asset Acquisition in CVP San Luis <sup>1</sup>																
3	C/O	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total	
E/I Relaxation																	0.0	
Project Pumping to reduce EWA debt							28.2										28.2	
JPOD using excess flows																	0.0	
JPOD using NOD storage																	0.0	
Xfer NOD - Sacramento River <sup>2</sup>		0.9 <sup>3</sup>															0.0	
Xfer NOD - San Joaquin River <sup>2</sup>																	0.0	
SOD CVP Surface/GW purchases																	0.0	
Exchange of EWA assets																	0.0	
Groundwater pumping																	0.0	
Exchange from SWP to CVP in SL																	0.0	
<b>Total Monthly EWA Assets</b>	0.0	0.0	0.0	0.0	0.0	0.0	28.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.2	

		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				-4.2 <sup>6</sup>		-32.8 <sup>7</sup>		-121.9 <sup>8</sup>	-134.0 <sup>8</sup>	-34.7 <sup>8</sup>							-327.6	
CVP export cuts						-11.0 <sup>7</sup>		0.0 <sup>3</sup>	0.0 <sup>3</sup>								-11.0	
<b>Total Expenditures</b>	0.0	0.0	0.0	-4.2	0.0	-43.8	0.0	-121.9	-134.0	-34.7	0.0	0.0	0.0	0.0	0.0	0.0	-338.6	

		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)	1.4	0.9	0.3	-4.2	0.0	1.6	0.0	-121.9	-134.0	-34.7	53.5	78.0	76.6	29.0	0.0	0.0	-53.5	
CVP in SL	-17.2	0.0	0.0	0.0	0.0	-11.0	28.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	
NOD Storage	0.9	17.8	0.0	0.0	-15.4	-3.3	0.0	62.0	0.0	0.0	10.0	-28.8	-27.0	-16.2	0.0	0.0	0.0	
SOD Storage (non-S.L.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.5	71.5	-55.0	-55.0	-15.0	0.0	0.0	0.0	
<b>Total Incremental Storage Changes</b>	-14.9	18.7	0.3	-4.2	-15.4	-12.7	28.2	-59.9	-134.0	18.8	135.0	-5.8	-5.4	-2.2	0.0	0.0	-53.4	

		EWA Cumulative 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)	1.4	2.2	2.5	-1.6	-1.6	0.0	0.0	-121.9	-255.9	-290.5	-237.0	-159.0	-82.5	-53.5	-53.5	-53.5		
CVP in SL (without Source Shift)	-17.2	-17.2	-17.2	-17.2	-17.2	-28.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
NOD Storage	0.9	18.7	18.7	18.7	3.3	0.0	0.0	62.0	62.0	62.0	72.0	43.2	16.3	0.0	0.0	0.0		
SOD Storage (non-S.L.)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	53.5	125.0	70.0	15.0	0.0	0.0	0.0		
<b>EWA Asset Balance</b>	-14.9	3.8	4.1	-0.1	-15.5	-28.2	0.0	-59.9	-193.9	-175.0	-40.0	-45.8	-51.2	-53.4	-53.4	-53.4		

		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) <sup>10</sup>		803	1072	1301	1829	1996	2030	2020	1952	1482	929	662	731	654	734	882		
SWP		520	601	674	1015	1100	1063	1055	1057	700	719	651	716	572	504	464		
CVP		283	471	628	814	897	966	965	895	782	210	11	15	82	230	418		
Encroachment																		
Total Storage (EWA case)		788	1058	1283	1810	1968	2030	1898	1898	1191	692	503	649	601	681	829		
MWD Source Shifting																		
<b>Storage (with MWD source shifting)</b>		788	1058	1283	1810	1968	2030	1898	1898	1191	692	503	649	601	681	829		

<sup>0</sup> 2005 NOD Purchases = 62(YCWA) + 10(MID). Additional option offers: 63(YCWA) + 5(MID). DWR on behalf of EWA entered into an agreement with SFWP for 6.2 TAF. This water spilled out of Lake Oroville in May.

<sup>1</sup> 2005 SOD Exchange/Purchase = 50(MWD) + 60(KCWA) + 15(SCVWD). Prop 204 = 29.7(KCWA) + 8.8(SCVWD).

<sup>2</sup> Aqueduct conveyance and evaporation losses are not included.

<sup>3</sup> Carriage water loss applies to water transfers from the Sacramento River (assumed to be 20% until modeling results indicate otherwise);

<sup>4</sup> a 10% conveyance loss applies to water transfers from the San Joaquin River.

**Carriage water loss in WY 2004 was 0%.**

<sup>5</sup> 2004 YCWA Transfer (Joint place of use) <sup>4</sup> 2004 PCWA Transfer (Joint place of use)

<sup>6</sup> 2005 SFWP Transfer (Joint place of use).

<sup>7</sup> About 4.2 TAF was expended for the Delta Action 8 experiment which occurred between 12/6/04 - 12/15/04.

<sup>8</sup> About 60.2 TAF was expended for the export curtailment which occurred between 2/205 - 2/7/05.

<sup>9</sup> The SWP's projected cost for VAMP is 130 TAF. The cost for a Pre-VAMP Shoulder is about 122 TAF.

<sup>10</sup> The CVP's costs for a pre-VAMP shoulder and most of VAMP are assumed to be covered by B2.

<sup>11</sup> Based upon the 5/2005 DWR's 90% (90% Fall) allocation study and 5/2005 USBR's 90% (90% Fall) B2 forecast.

<sup>12</sup> 2005 YCWA Transfer (Joint place of use)

<sup>13</sup> 2005 SFWP Transfer (Joint place of use) <sup>14</sup> 2005 MID Transfer (Joint place of use)

<sup>15</sup> 2005 Prop 204 SOD Transfer (SWP place of use) - KCWA <sup>16</sup> 2005 Prop 204 SOD Transfer (CVP place of use) - SCVWD

<sup>17</sup> The CVP spilled ~ 3.3 TAF of EWA water stored in Folsom during flood control operations.

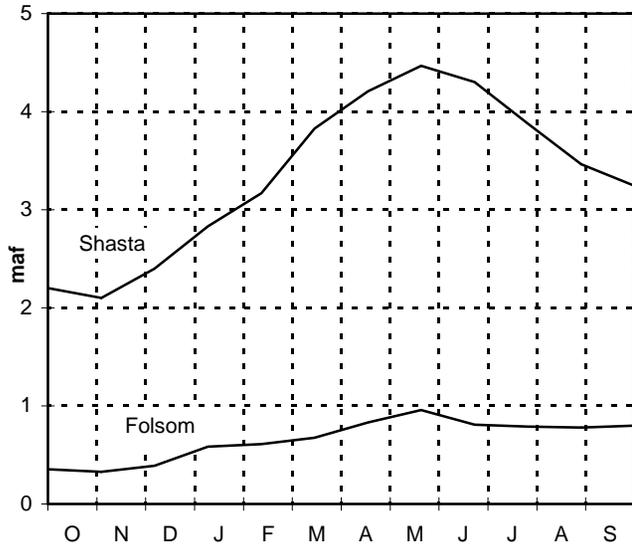
<sup>18</sup> 2005 KCWA Purchases (SWP place of use) <sup>19</sup> 2005 MWD Exchange (SWP place of use) DWR on behalf of EWA owes MWD 50 TAF in a dry year when SWP allocations are 60% or less and MWD requests return.

# SWP & CVP WY 2005 Forecasted Operations.

(based on 6/1/05 water supply update)

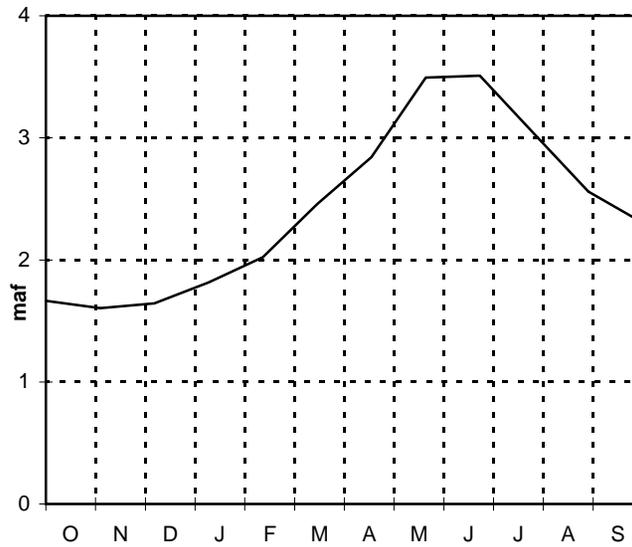
### Upstream CVP storage

— 50% Excd.



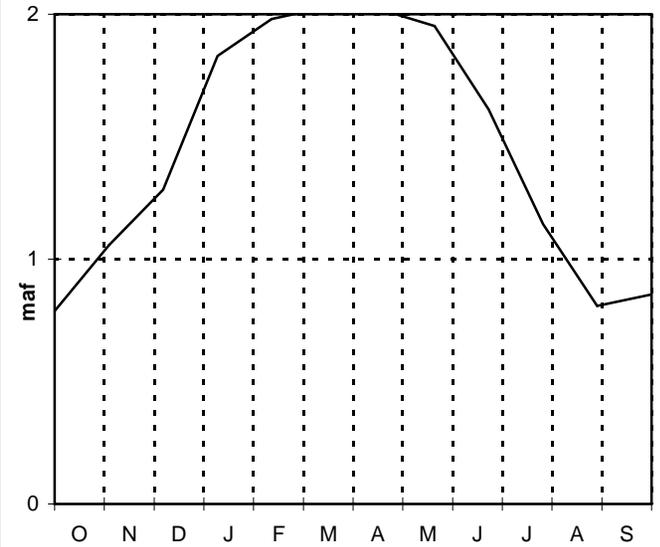
### Lake Oroville storage

— 50% Excd.



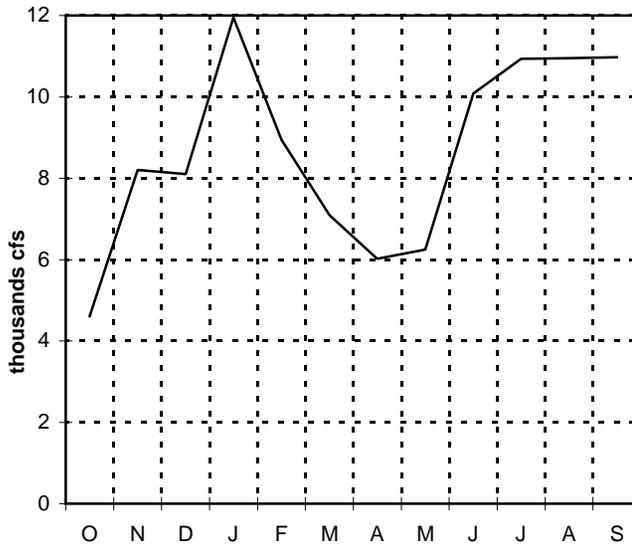
### San Luis Reservoir Storage

— 50% Excd.



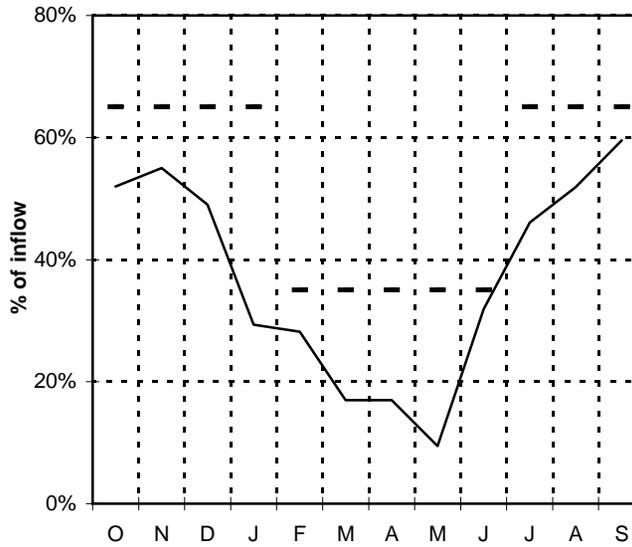
### Delta Exports

— 50% Excd.



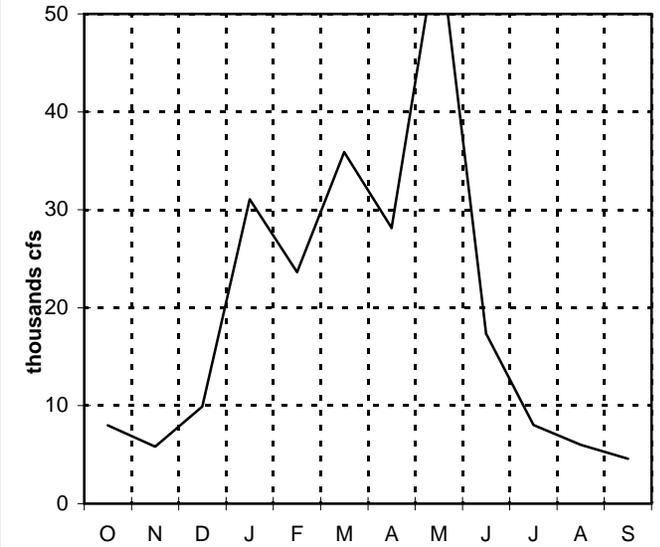
### Delta Export/Inflow percent

— 50% Excd.



### Net Delta Outflow Index

— 50% Excd.



Flows are monthly averages.