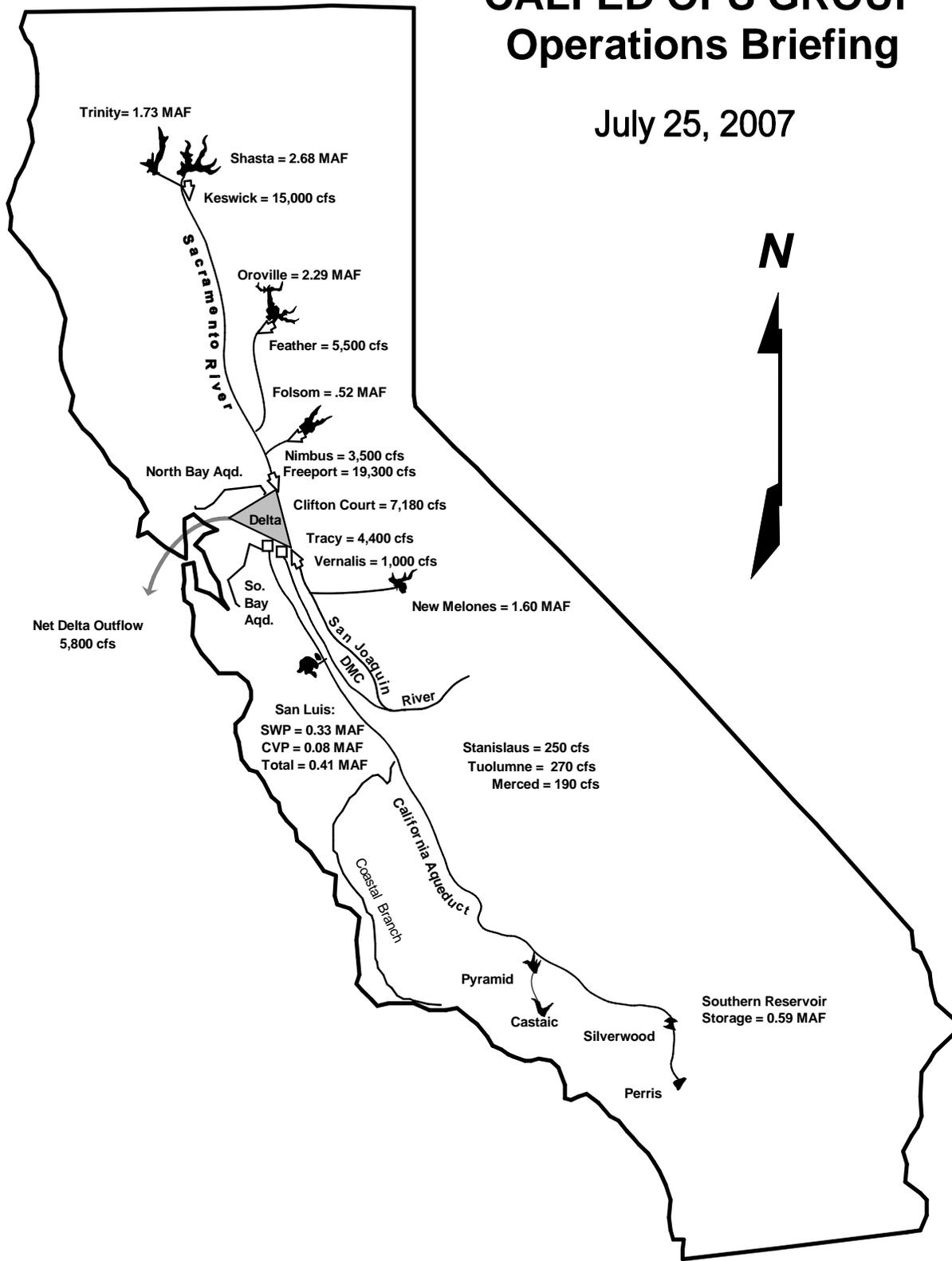


# CALFED OPS GROUP Operations Briefing

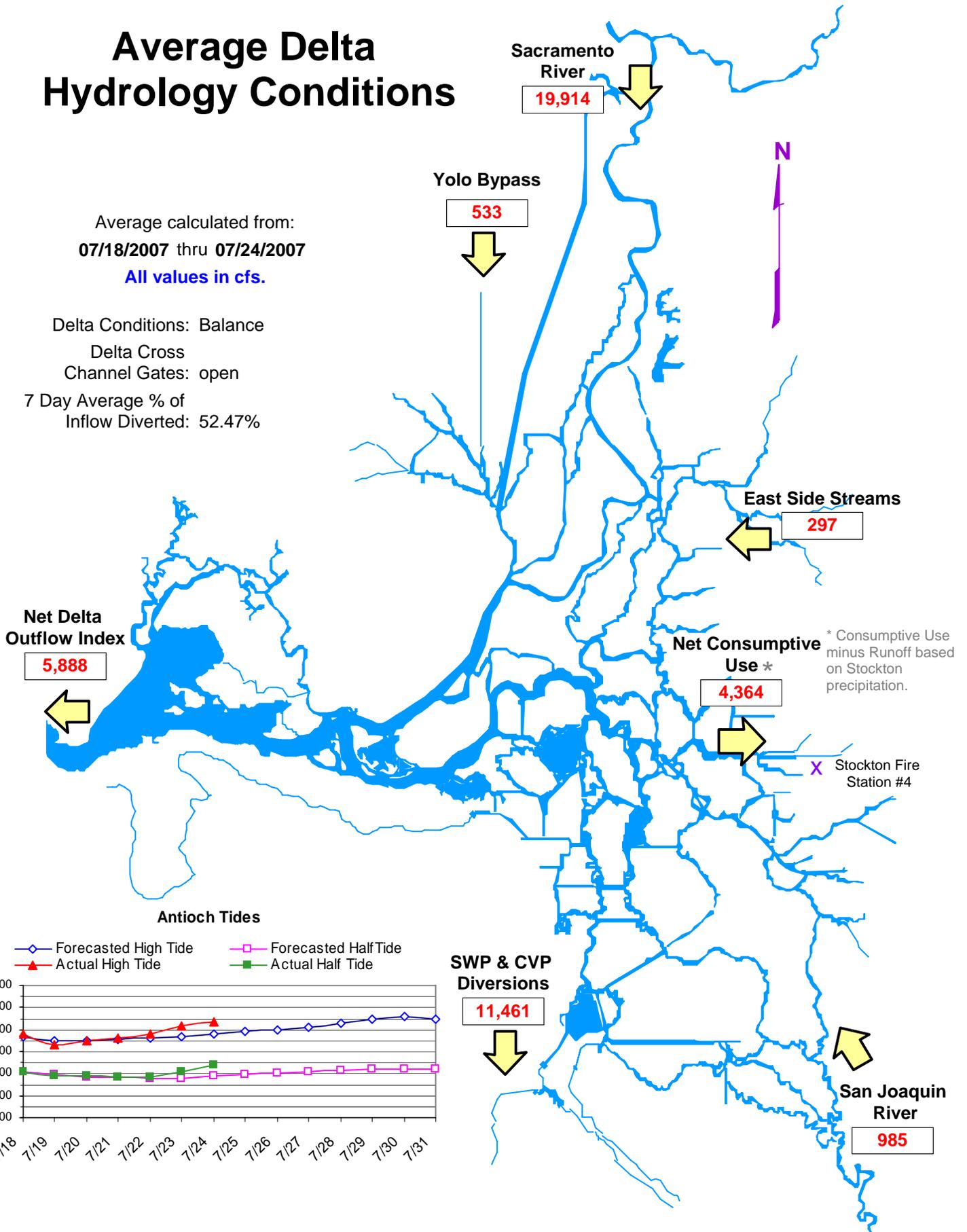
July 25, 2007



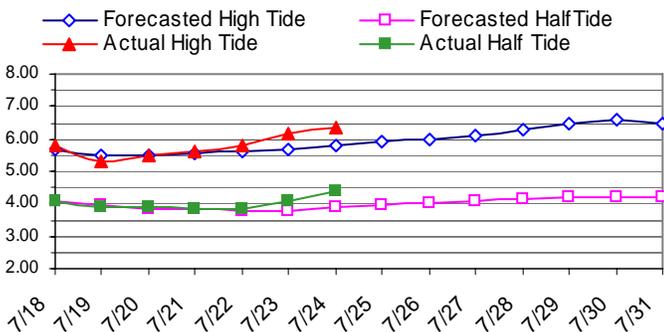
# Average Delta Hydrology Conditions

Average calculated from:  
**07/18/2007** thru **07/24/2007**  
 All values in cfs.

Delta Conditions: Balance  
 Delta Cross  
 Channel Gates: open  
 7 Day Average % of  
 Inflow Diverted: 52.47%



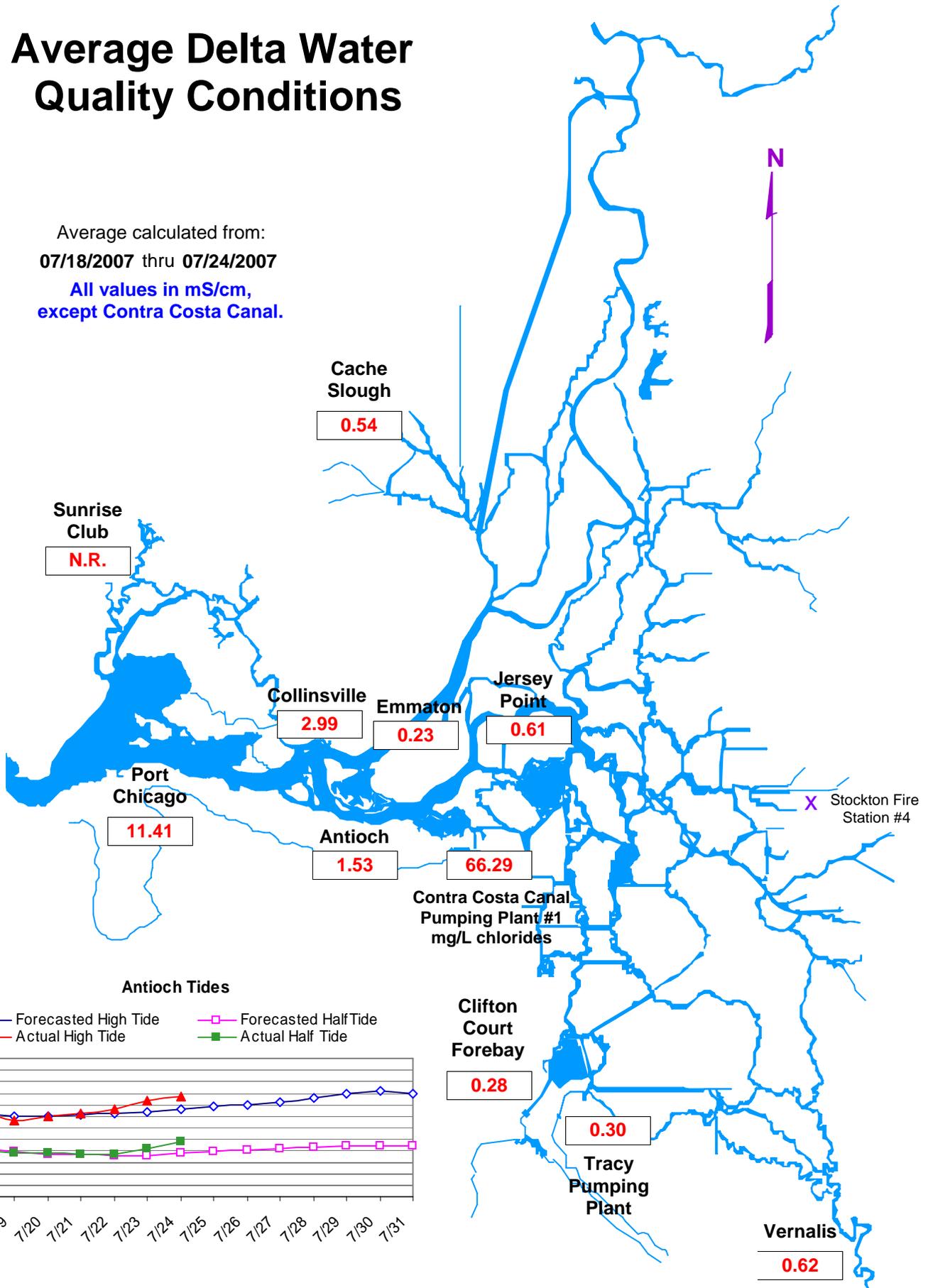
## Antioch Tides



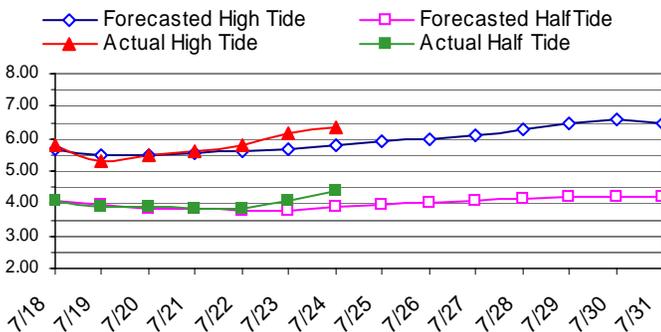
# Average Delta Water Quality Conditions

Average calculated from:  
07/18/2007 thru 07/24/2007

All values in mS/cm,  
except Contra Costa Canal.



Antioch Tides



**DRAFT**

# Bay-Delta Standards

Contained in D-1641

**DRAFT**

CRITERIA	Jul 07	Aug 07	Sep 07
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## FLOW/OPERATIONAL

<ul style="list-style-type: none"> <li>Fish and Wildlife               <ul style="list-style-type: none"> <li>SWP/CVP Export Limits</li> <li>Export/Inflow Ratio</li> <li>Minimum Outflow - mon.                   <ul style="list-style-type: none"> <li>- 7 day avg.</li> </ul> </li> <li>Suisun Marsh                   <ul style="list-style-type: none"> <li>Habitat Protection Outflow, X2</li> </ul> </li> <li>River Flows:                   <ul style="list-style-type: none"> <li>@ Rio Vista - min. mon. avg.                       <ul style="list-style-type: none"> <li>- 7 day average</li> </ul> </li> <li>@ Vernalis: Base -min. mon. avg.                       <ul style="list-style-type: none"> <li>- 7 day average</li> </ul> </li> </ul> </li> <li>Delta Cross Channel Gates</li> </ul> </li> </ul>			
	65% of Delta Inflow		
	5000 cfs	3,500 cfs	3,000 cfs
	4000 cfs	2,500 cfs	2,000 cfs
			3,000 cfs
			2,000 cfs

## WATER QUALITY STANDARDS

<ul style="list-style-type: none"> <li>Municipal and Industrial               <ul style="list-style-type: none"> <li>All Export Locations</li> <li>Contra Costa Canal</li> </ul> </li> </ul>			
	CI <= 250 mg/l		
<ul style="list-style-type: none"> <li>Agriculture               <ul style="list-style-type: none"> <li>Western/Interior Delta</li> <li>Southern Delta</li> </ul> </li> </ul>	CI <= 150 mg/l for 165 days ( 187 Days have been met )		
	( June 15 - Aug 15; Emmaton <=1.67 mS/cm, Jersey <= 1.35 mS/cm EC.)		
	30-day running average EC <= 1.0 mS ( @ Vernalis <= 0.7 mS )		
<ul style="list-style-type: none"> <li>Fish and Wildlife               <ul style="list-style-type: none"> <li>San Joaquin River Salinity</li> <li>Suisun Marsh Salinity</li> </ul> </li> </ul>			

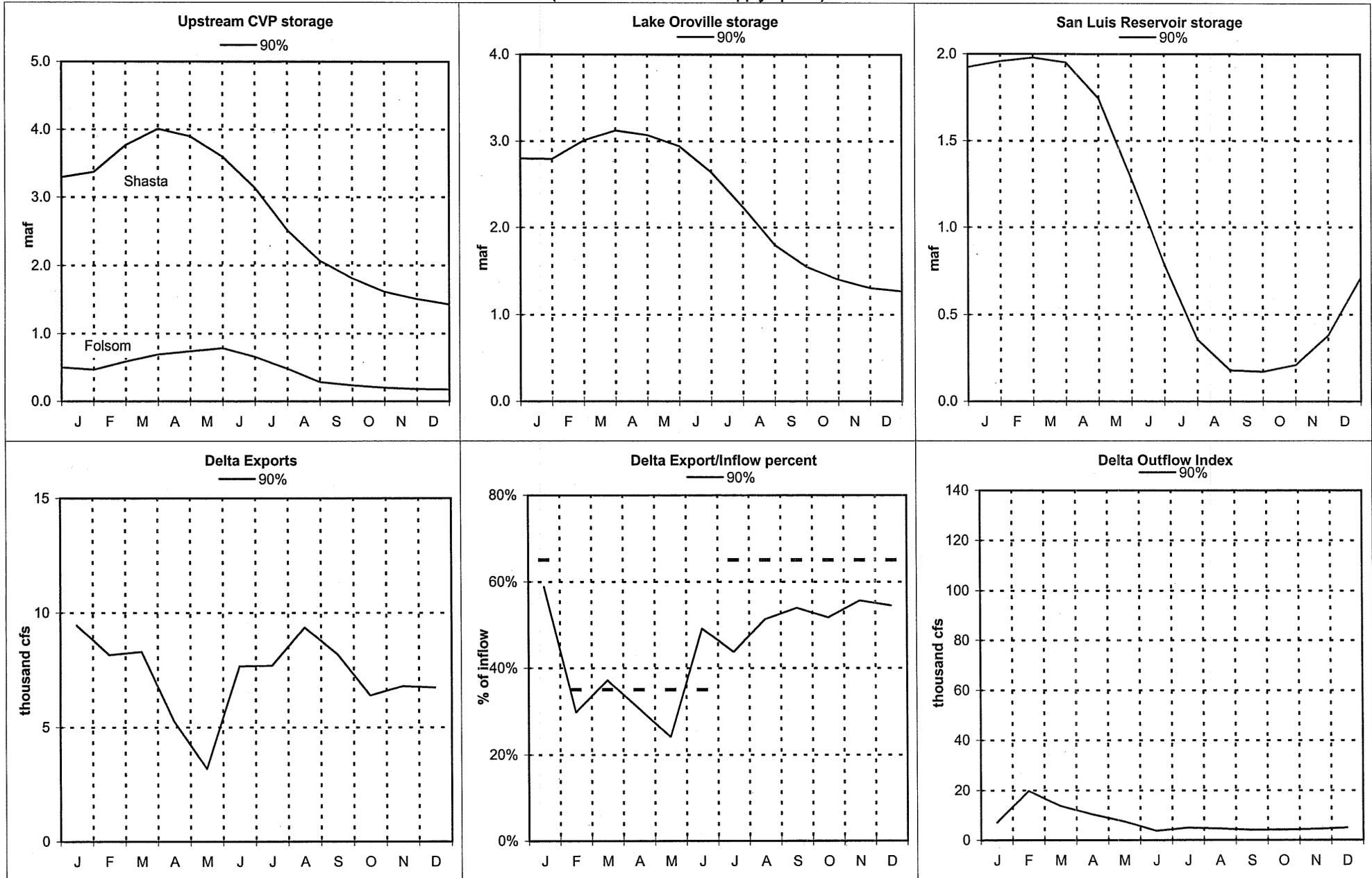
**Water Year Classification: Dry (Based on 05/01/2007 forecast)**

SVI (40-30-30 @ 50%) = 6.2 (DRY)                      Apr 8RI: 1.730 MAF

SJV (60-20-20 @75%) = 1.9 (CRITICAL)

# SWP & CVP CY 2007 Forecasted Operations

(based on 7-1-07 water supply update)



Flows are monthly averages.  
O&M; cfp1072507

PRELIMINARY DATA - SUBJECT TO REVISION

7/25/2007 9:47 AM

2006/2007 EWA Accounting Summary (Based on 90%-90% Fall Hydrology)

		Preliminary Actual		End of 2007	Total
		As of 7/16/07	Total	End of 2007	Total
Expenditures	SWP	407.9	504.6	407.9	504.6
	CVP	96.7		96.7	
Acquisitions @ O'Neill	Fixed	0.0	80.4	120.1	486.0
	NOD**	0.0		125.0	
	SOD	0.0		240.9	
	Variable Ops	80.4			
Assets in Storages (non SL)		0.0	0.0	0.0	0.0
S. L. Balance	SWP	-327.5	-424.2	-18.5	-18.6
	CVP	-96.7		-0.1	

**Legends:**

Projected Value

Actual Value

*Italic #* Previous CY

**TABLE 1: Delivered EWA NOD and SOD Assets (- = Releases)**

	commit	Delivered EWA NOD and SOD Assets (- = Releases)									WY*		CY*					
		Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total	Oct	Nov	Dec	Total
NOD Upstream Storage														0.0				0.0
SFWP (above Oroville)														0.0				0.0
PCWA (above Folsom)														0.0				0.0
NOD Release to Delta														108.5				147.0
YCWA	SWPAO # 07-???	122.0						-8.8		-15.0	-30.3	-30.4	-24.0	-108.5	-13.5			-122.0
MID		25.0												0.0	-25.0			-25.0
SOD Storage														107.6				125.0
SCWVD	SWPAO # 07-???	0.0												0.0				0.0
KCWA	SWPAO # 07-???	125.0							-36.2		-27.0	-27.0	-17.4	-107.6	-17.4			-125.0
MWD	SWPAO # 07-???	0.0												0.0				0.0
MWD	SWPAO # 07-???	0.0												0.0				0.0
MWD	SWPAO # 07-???	0.0												0.0				0.0

**TABLE 2: EWA Asset Acquisition in SWP San Luis (without aqueduct conveyance and evaporation losses)**

	EWA Asset Acquisition in SWP San Luis (without aqueduct conveyance and evaporation losses)									WY*		CY*					
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total	Oct	Nov	Dec	Total
E/I Relaxation													0.0				0.0
EWA share of SWP gain from B2 releases	1.7												1.7				0.0
Project Pumping to reduce EWA debt		3.0	127.9	26.7									157.6				26.7
JPOD using excess flows													0.0				0.0
JPOD using NOD storage													0.0				0.0
Xfer NOD - SacR (20% Carriage Loss) **										77.0	77.0	19.2	173.2	10.8			184.0
Xfer NOD - SJR (10% Conveyance Loss) **													0.0				0.0
SOD SWP Surface/GW Purchases								36.2		27.0	27.0	17.4	107.6	17.4			125.0
Exchange of EWA assets													0.0				0.0
Groundwater pumping SOD													0.0				0.0
Exchange from CVP to SWP in SL													0.0				0.0
<b>Total Monthly EWA Assets</b>	<b>1.7</b>	<b>3.0</b>	<b>127.9</b>	<b>26.7</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>36.2</b>	<b>0.0</b>	<b>104.0</b>	<b>104.0</b>	<b>36.6</b>	<b>440.1</b>	<b>28.2</b>	<b>0.0</b>	<b>0.0</b>	<b>335.7</b>

**TABLE 3: EWA Asset Acquisition in CVP San Luis (without aqueduct conveyance and evaporation losses)**

	EWA Asset Acquisition in CVP San Luis (without aqueduct conveyance and evaporation losses)									WY*		CY*					
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total	Oct	Nov	Dec	Total
E/I Relaxation													0.0				0.0
Project Pumping to reduce EWA debt													0.0				0.0
JPOD using excess flows													0.0				0.0
JPOD using NOD storage													0.0				0.0
Xfer NOD - SacR (20% Carriage Loss) **										37.3	36.8		74.1				74.1
Xfer NOD - SJR (10% Conveyance Loss) **													0.0	22.5			22.5
SOD CVP Surface/GW purchases													0.0				0.0
Exchange of EWA assets													0.0				0.0
Groundwater pumping													0.0				0.0
Exchange from SWP to CVP in SL													0.0				0.0
<b>Total Monthly EWA Assets</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>37.3</b>	<b>36.8</b>	<b>0.0</b>	<b>74.1</b>	<b>22.5</b>	<b>0.0</b>	<b>0.0</b>	<b>96.6</b>

**TABLE 4: EWA Expenditures at the Export Pumps**

	EWA Expenditures at the Export Pumps									WY*		For WY 2007-2008					
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total	Oct	Nov	Dec	Total
SWP export cuts				-9.7	-68	-75	-23	-72	-74				-407.9				
CVP export cuts								-39	-58				-96.7				
<b>Total Expenditures</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>-96.6</b>	<b>-68.3</b>	<b>-75.2</b>	<b>-22.5</b>	<b>-110.4</b>	<b>-131.6</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>-504.6</b>				

**TABLE 5: (Acquisition + Expenditures) EWA Incremental Storage Changes**

	EWA Incremental Storage Changes									WY*		Dec Bal						
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total	Oct	Nov	Dec	Total	
Total NOD Storage (non SL)	0.0	0.0	0.0	0.0	0.0	0.0	8.8	39.0	176.8	-112.5	-111.9	0.0		0.0	0.0	0.0	0.2	
Shasta																		0.0
Oroville							8.8	20.0	103.0	-65.9	-65.9							0.0
Bullards Bar																		0.0
Folsom								19.0	73.8	-46.6	-46.0							0.2
New Melone																		0.0
Total SOD Storage (non SL)																		0.0
<b>Total Assets in Storage (non SL)</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>8.8</b>	<b>39.0</b>	<b>176.8</b>	<b>-112.5</b>	<b>-111.9</b>	<b>0.0</b>		<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.2</b>	
SWP in SL (without Source Shift)	1.7	3.0	127.9	-69.9	-68.3	-75.2	-22.5	-35.4	-73.7	104.0	104.0	36.6		28.2	0.0	0.0	-18.5	
CVP in SL (without Source Shift)	0.0	0.0	0.0	0.0	0.0	0.0	0.0	-38.8	-57.9	37.3	36.8	0.0		22.5	0.0	0.0	-0.1	

**TABLE 6: EWA Cumulative End-of-Month Storage Balance**

	EWA Cumulative End-of-Month Storage Balance									WY*		Dec Bal							
	EOM Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total	Oct	Nov	Dec	Total	
Total NOD Storage (non SL)		0.0	0.0	0.0	0.0	0.0	0.0	8.8	47.8	224.6	112.1	0.2	0.2		0.2	0.2	0.2		
Shasta																			
Oroville								8.8	28.8	131.8	65.9	0.0	0.0		0.0	0.0	0.0		
Bullards Bar																			
Folsom									19.0	92.8	46.2	0.2	0.2		0.2	0.2	0.2		
New Melone																			
Total SOD Storage (non SL)																			
<b>Total Assets in Storage (non SL)</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>0.0</b>	<b>8.8</b>	<b>47.8</b>	<b>224.6</b>	<b>112.1</b>	<b>0.2</b>	<b>0.2</b>		<b>0.2</b>	<b>0.2</b>	<b>0.2</b>	<b>0.2</b>		
SWP in SL (without Source Shift)	-78.9	-77.2	-74.2	53.7	-16.2	-84.5	-159.7	-182.2	-217.6	-291.3	-187.3	-83.3	-46.7		-18.5	-18.5	-18.5		
CVP in SL (without Source Shift)		0.0	0.0	0.0	0.0	0.0	0.0	0.0	-38.8	-96.7	-59.4	-22.6			-0.1	-0.1	-0.1		

**TABLE 7: San Luis Reservoir End-of-Month Storage Conditions**

	San Luis Reservoir End-of-Month Storage Conditions												Dec Bal			
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Total	Oct	Nov	Dec
Total Storage (base case) ***	1537	1725	1868	1959	1980	1952	1749	1280	898	528	322	286		339	550	812
SWP	1101	1161	1189	1181	1237	1187	1061	815	628	443	325	218		186	221	272
CVP	436	564	680	778	743	765	688	465	270	85	-3	68		152	329	540
Encroachment																
Total Storage (EWA case)	1460	1651	1922	1943	1986	1792	1567	1023	510	281	216	216		320	531	793
Monthly MWD Source Shifting																
<b>Storage (with MWD source shifting)</b>	<b>1460</b>	<b>1651</b>	<b>1922</b>	<b>1943</b>	<b>1986</b>	<b>1792</b>	<b>1567</b>	<b>1023</b>	<b>510</b>	<b>281</b>	<b>216</b>	<b>216</b>		<b>320</b>	<b>531</b>	<b>793</b>

\* The WY accounting is typically used for EWA accounting except when the CY accounting is required for Bulletin 132.  
 \*\* Carriage water loss applies to water transfers from the Sacramento River (assumed to be 20% until modeling results indicate otherwise); a 10% conveyance loss applies to water transfers from the San Joaquin River.  
 \*\*\* Based upon the 6/2007 DWR's 90% Fall allocation study for SWP share of San Luis and preliminary 6/2007 USBR's 90% Fall forecast study for CVP share of San Luis.  
 Note: 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.

**Notes Related to 2006/2007 EWA Accounting Summary** (Based on **90%-90% Fall** Hydrology)

NOTES RELATED TO TABLE 1			
Sources	SWPAO No.	Quantity	Notes
<b>NOD Upstream Storage</b>			
SFWP (above Oroville)			
PCWA (above Folsom)			
<b>NOD Release to Delta</b>			
YCWA	SWPAO # 07-???	<b>122.0</b>	WY 2007 Pilot Agreement plus the water roll-over from previous year.
MID	CVP Contract	<b>25.0</b>	Purchased with EWA CVP fund.
<b>SOD Storage</b>			
SCVWD	SWPAO # 07-???	<b>0.0</b>	
KCWA	SWPAO # 07-???	<b>120.0</b>	
MWD	SWPAO # 07-???	<b>0.0</b>	
MWD	SWPAO # 07-???	<b>0.0</b>	
MWD	SWPAO # 07-???	<b>0.0</b>	

NOTES RELATED TO TABLE 4										
	Oct-Dec	Jan	Feb	Mar	Apr 1-21	Apr 22-30	May 1-22	May 23-31	Jun	Jul-Sep
SWP export cuts		~97 TAF to meet minus 4,000 cfs MOR flow target during Jan 15-31.	~68 TAF to meet minus 4,000 cfs MOR flow target during entire Feb.	~75 TAF to meet minus 4-5 kcfs MOR flow target during entire Mar.	~ 7 TAF to meet minus 5,000 cfs MOR flow target during Pre-VAMP.	VAMP cost for keeping Banks at 750 cfs (half of 1500 cfs) is ~11 TAF.	VAMP cost for keeping Banks at 750 cfs for 15 days and 350 cfs for 7 days is ~29.7 TAF.	Post-VAMP cost for keeping Banks at 400 cfs is ~41.9 TAF.	Post-VAMP cost for keeping Banks at minimum is ~73.7 TAF during June.	
CVP export cuts								Post-VAMP cost for keeping Jones at 850 cfs is ~38.8 TAF.	Post-VAMP cost for keeping Jones at 850 cfs is ~57.9 TAF through mid June.	