

Where did the unaccounted for fresh water flow from the Delta go from 2006 to 2010?

DWR provided the chart below at the following link accessed January 2014:
[HTTP://www.waterplan.water.ca.gov/docs/cwpu2013/ae/water_portfolio-inflow_outflow_delta.pdf](http://www.waterplan.water.ca.gov/docs/cwpu2013/ae/water_portfolio-inflow_outflow_delta.pdf)

Chart is supposed to provide the total numbers of water inflow, exports and outflow from the Delta in thousand acre feet (TAF). However, when one reviews the numbers, it appears starting in 2006 there is unaccounted for flow. Where did that water go? How and who received the unaccounted for flow which would have a value of \$3.5 Billion or more? Newly-built Diamond Lake in Southern California was filling up during the same time as there is unaccounted for flow, so that might be one place to look. How does the reported flow numbers affect computer modeling of the BDCP?

- (1) Do the below unaccounted for flows get reflected in the modeling of the public draft of the BDCP, or not?
- (2) Is this unaccounted for flow the cause of the decline of native salmon species that migrate through the Delta, or not?
- (3) Why is CCWD exports included as both Delta Consumptive Use and also CCWD exports at Rock Slough and Old River? That is double-counting the same export numbers.
- (4) Why don't the drafters of the BDCP acknowledge or address the unaccounted for flows in the public draft of the BDCP, as the below numbers must surely be part of the baseline historical flow data used to determine the leftover flows for the Delta once the conveyance system is fully operational. Or is the revised central conveyance system fully operable and the chart below reflects the diverted North Delta flow by failing to disclose that flow?

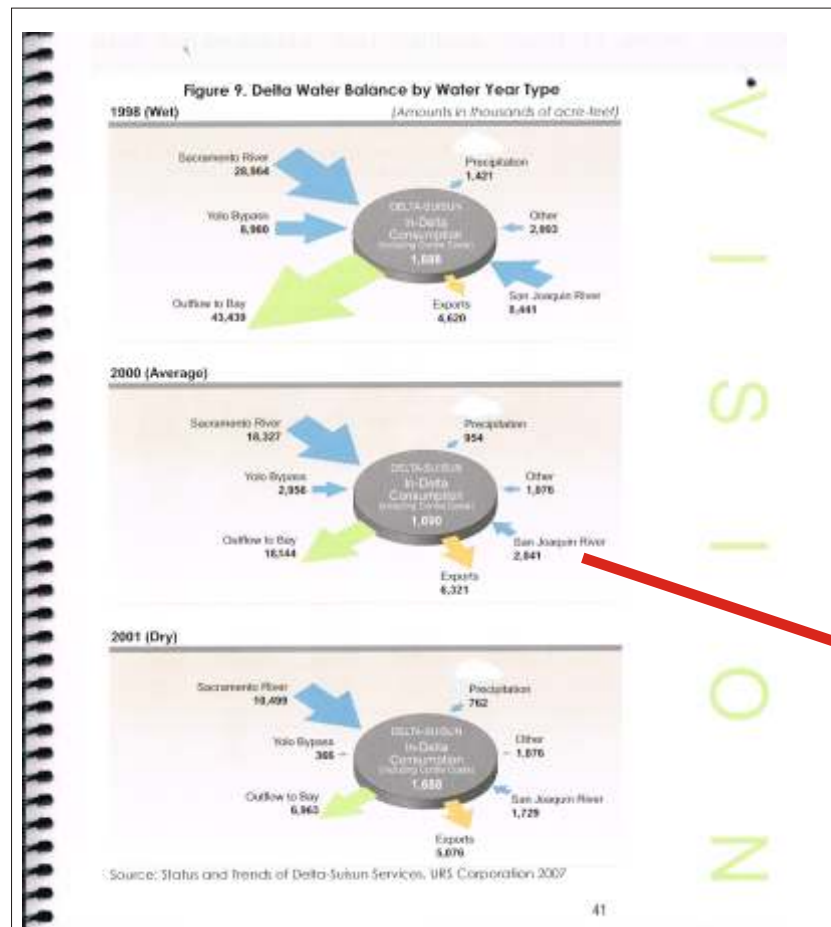
So that anyone viewing this comment regarding missing or unaccounted for flows, I created pie charts and compared my numbers to the ones used by the Delta Vision group to portray Delta inflow and outflow. Note the Delta Vision chart numbers are similar to the same years on the chart from DWR above for 1998 to 2005. Then starting in 2006 there seems to be substantial amounts of unaccounted for flow, as the excel spread sheet shows. Pie charts were made of the exact numbers from the DWR chart, and where the numbers did not total out, the category "unaccounted for flows" was used.

Inflow into the Delta is measured and calculated from various monitoring stations. Outflow numbers are based on a combination of flow station reports and calculations by DWR and state water contractors. **When the DWR numbers were entered into a spreadsheet and pie charts made, it became clear how much water has been unaccounted for since 2006. So the question is, where did the water go? And did DWR provide the accurate flow data to the computer modelers drafting their sections of the Bay Delta Conservation Plan or is the BDCP computer model outcomes made of false baseline flow numbers?**

http://www.waterplan.water.ca.gov/docs/cwpu2013/ae/water_portfolio-inflow_outflow_delta.pdf

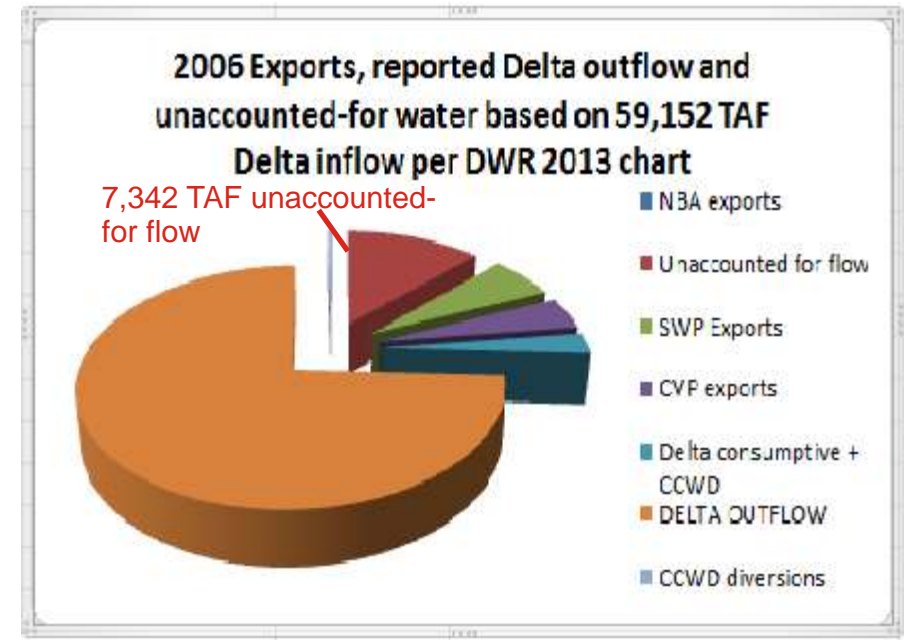
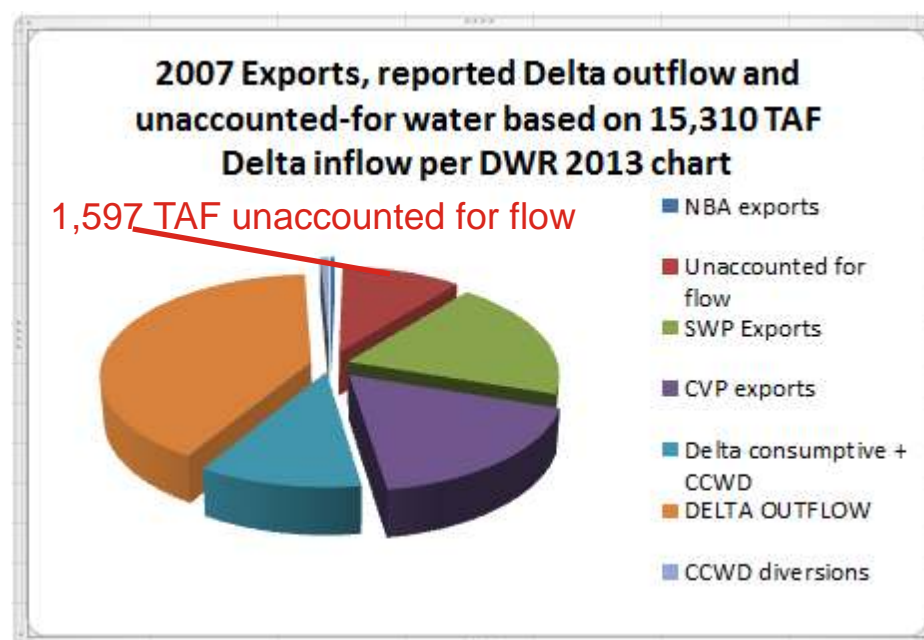
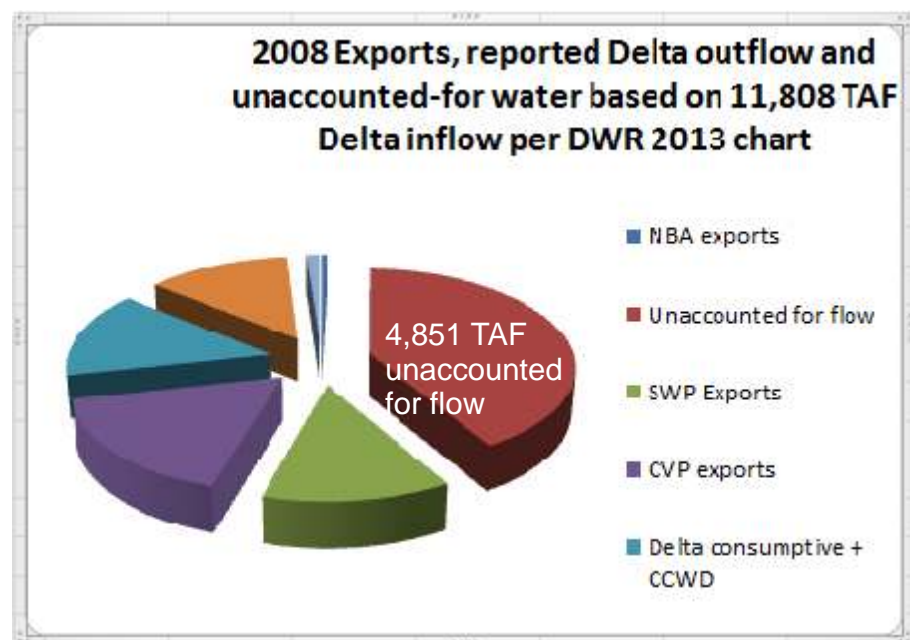
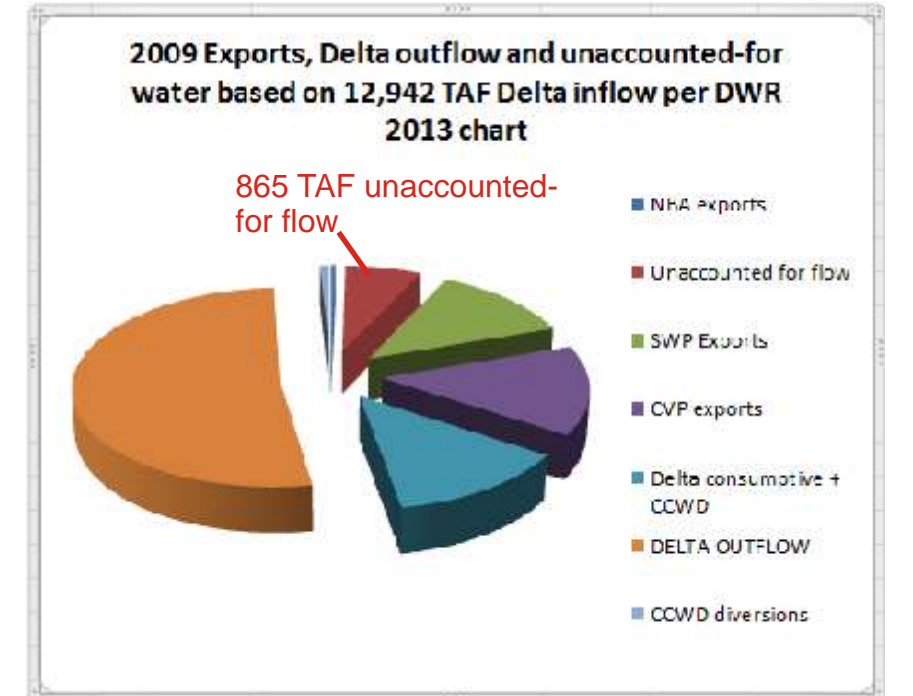
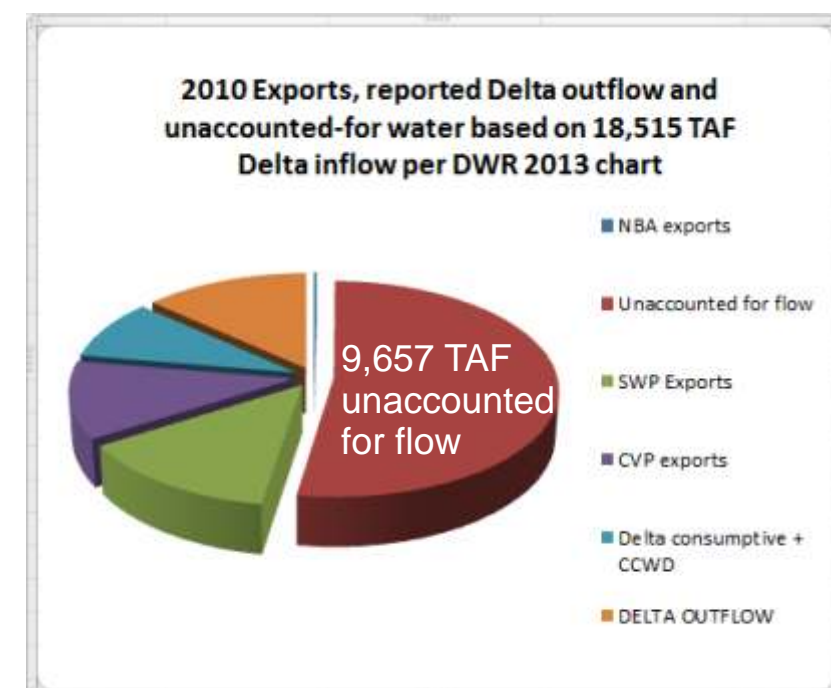
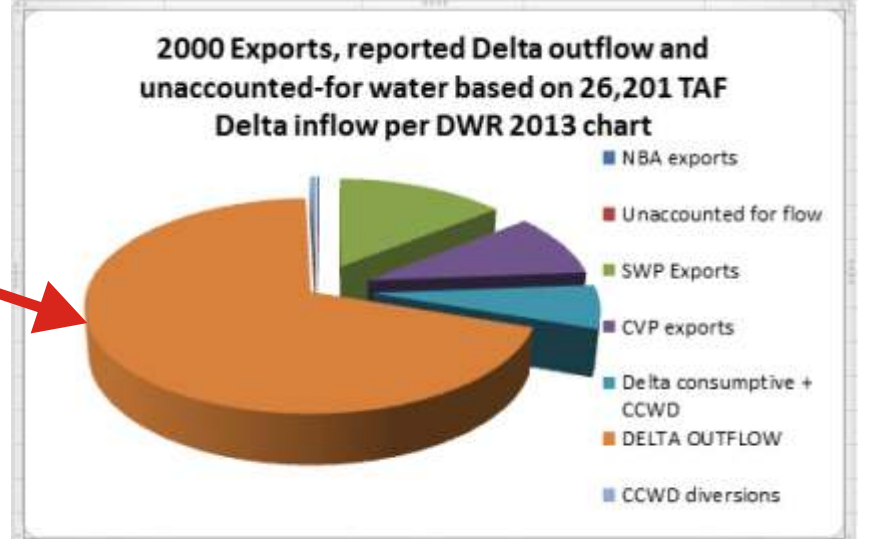
Delta Water Balance Estimates ¹ (TAF)	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Sacramento River Inflow	29015	21770	18360	10517	13104	18304	17129	16747	28039	11010	9557	9867	12777
Yolo Bypass Inflow	8996	1635	2961	366	708	1122	3121	707	13034	248	417	317	659
Eastside Tributaries Inflow	2096	1399	1078	372	462	534	445	1173	9679	1979	n	1231	2461
San Joaquin River Inflow	8456	3568	2846	1732	1396	1365	1373	3777	7341	1596	1234	865	1829
North Bay Aqueduct Exports	39	37	47	45	47	42	52	48	43	61	55	46	43
Contra Costa Water District Diversions at Rock Slough and Old River	160	133	126	104	121	138	120	119	116	112	135	107	94
State Water Project Exports at Banks Pumping Plant or Clifton Court Intake	2134	2439	3692	2635	2900	3458	3251	3625	3527	2954	1527	1636	2496
Central Valley Project Exports at Tracy	2474	2262	2487	2332	2505	2685	2722	2679	2628	2679	2018	1884	2141
Delta Consumptive Use ²	1691	1691	1693	1691	1691	1691	1693	1691	1691	1691	1693	1691	1666
Delta Precipitation ²	1423	734	956	764	758	739	753	1089	1059	477	600	662	789
Delta Outflow	43487	22542	18156	6944	9163	14050	14922	15403	43805	6216	1529	6713	2461

¹ Data from DAYFLOW Program; NOTE: includes DAYFLOW corrections through 01-07-2004 (<http://lep.water.ca.gov/dayflow>)
² Content Required by Water Code Section 10004.6



2000 Water Exports based on 26,201 TAF Inflow

Central Valley exports	2,487
State Water Project exports	3,962
North Bay Aqueduct exports	47
CCWD diversions	126
Delta Consumptive Use (incl. CCWD diversions)	1,693
Reported Delta Outflow	18,155
Unaccounted for flow	1



YEAR	SACRAMENTO RIVER and DELTA INFLOW, DELTA EXPORTS AND DELTA OUTFLOW (taf)					WHERE DID THE UNACCOUNTED FOR WATER GO?							Missing or unaccounted for water represents over \$3.5 billion value		
	SAC RIVER	YOLO	EASTSIDE	SJ	delta precip	total inflows	NBA exports	CCWD diversions	SWP Exports	CVP exports	Delta consumptive + CCWD	Total EXPORTS	DELTA OUTFLOW reported	Unaccounted for flow	
2010	12777	659	2461	1829	789	18515	43	94	2496	2141	1666	6397	2461	9657	
2009	9867	317	1231	865	662	12942	46	107	1636	1884	1691	5364	6713	865	
2008	9557	417	0	1234	600	11808	55	135	1527	2018	1693	5428	1529	4851	
2007	11010	248	1979	1596	477	15310	61	112	1527	2679	1691	7497	6216	1597	
2006	28039	13034	9679	7341	1059	59152	43	116	3527	2628	1691	8005	43805	7342	
2005	16747	707	1173	3777	1089	23493	48	119	3625	2679	1691	8162	15403	-72	
2004	17129	3121	445	1373	753	22821	52	120	3251	2722	1693	7838	14922	61	
2003	18304	1122	534	1365	739	22064	42	138	3458	2685	1691	8014	14050	0	
2002	13104	708	462	1396	758	16428	47	121	2900	2505	1691	7264	9163	1	
2001	10517	366	327	1732	764	13706	45	104	2635	2332	1691	6807	6944	-45	
2000	18360	2961	1078	2846	956	26201	47	126	3692	2487	1693	8045	18156	0	
1999	21770	1635	1399	3568	734	29106	37	133	2439	2262	1691	6562	22542	2	
1998	29015	8996	2096	8456	1423	49986	39	160	2134	2474	1691	6498	43487	1	

Chart above was created by taking the exact flow numbers from the DWR 2013 table below, calculating basic Delta inflow and outflow as reported below, and then noting where there is unaccounted for flow. Note also how low the Delta outflow has been 2008-2010!

24,312 TAF unaccounted for flow has a minimum value of \$3,646,800,000

http://www.waterplan.water.ca.gov/docs/cwpu2013/ae/water_portfolio-inflow_outflow_delta.pdf

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Delta Consumptive Use ²	1691	1691	1693	1691	1691	1691	1693	1691	1691	1691	1693	1691	1666
Delta Precipitation ²	1423	734	956	764	758	739	753	1089	1059	477	600	662	789
Delta Outflow	43487	22542	18156	6944	9163	14050	14922	15403	43805	6216	1529	6713	2461

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YEAR	total inflows	EXPORTS	DELTA OUTFLOW reported	Unaccounted for flow
2010	18515	6397	2461	9657
2009	12942	5364	6713	865
2008	11808	5428	1529	4851
2007	15310	7497	6216	1597
2006	59152	8005	43805	7342
2005	23493	8162	15403	-72
2004	22821	7838	14922	61
2003	22064	8014	14050	0
2002	16428	7264	9163	1
2001	13706	6807	6944	-45
2000	26201	8045	18156	0
1999	29106	6562	22542	2
1998	49986	6498	43487	1