	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1	CALFED GAME 6B																																															
2	Year	1981										CVP Accounting					EWA								EWA Accounting																			Projects				
3																	Upstream					Export			Export Supply Factors											Storage												
4		Upstream Balance												Export Balance			Upstream Balance					Cuts												Negative values for borrowed water													
5		Increased			Total	AFRP	AFRP	Cum	Offst	Increas	WQCP	Total	Net	Discret	Increas	WQCP	Increas	Reduced		CVP	SWP	Total	E/I	500 cfs	JPOD	JPOD	Spill	NOD	SOD	SWP E	Sum	Sum		SLR:C	SLR:S	MWD	Vidler	Sum	Chang	Shasta	Folsom	Oroville		SWP S	SWP	CVP	CVP	
6		Releases			AFRP	Backed	Reset	Offset	Allowe	WQCP	Reset	WQCP	Upstre	Cuts	Pumping		Releas	Releases		EWA	EWA	Cuts			split	Not sp	Debt	XFER	XFER	Export	Export	factors						Export	Export	Storage				500cfs	Gain	JPOD	JPOD	
7		Shasta	Folsom	New		Water	Offset	Potential			(negative		Balance		(negative			(negative		Export	Export						(Storage)				Factors	&Cuts						Storage						50%	25%	50%	Not split	
8				Melones							Offset									Cuts	Cuts																											
9											Negative																						Initial valu	0	0	0	200	200	0	0	0	0						
10	O		67	5	72		(68)			20		20	24						O			0								2	2	2	O		2		200	202	2					0	2	0		
11	N		68	5	73		(68)				(9)	(9)	(4)						N		62	62								1	1	-61	N		-59		200	141	-61					0	1	0		
12	D	105	65	5	175							0	175						D			0								72	72	72	D		13		200	213	72					0	72	0		
13	J	75	20	5	100							0	100						J		121	121								28	28	-93	J		-80		200	120	-93					0	28	0		
14	EWA Gain Reduction				(136)	Max R	(68)																																										
15		180	220	20	284	0	(136)			20	(9)	11	295	0	0	0	0	0		0	183	183	0	0	0	0	0	0	0	103	103	(80)												0	103	0		
16																																																	
17	F				0			0	0		(11)	(11)	(11)			18			F		234	234									0	-234	F		-314		200	-114	-234					0	0	0		
18	M				0			0	0			0	0			25			M		102	102									0	-102	M		-416		200	-216	-102					0	0	0		
19	A		45		45			0	0		(5)	(5)	40	86		107			A	25	11	36			40						40	4	A	-65	-347		200	-212	4					0	0	40		
20	M		45		45			0	0		(177)	(177)	(132)	30		146			M	129	-52	77							30		30	-47	M	-164	-295		200	-259	-47					0	0	0		
21	J				0			0	0		(33)	(33)	(33)			80			J	-75		-75							30		30	105	J	-59	-295		200	-154	105					0	0	0		
22	J				0			0	0	84		84	84			0			J			0							30		30	30	J	-29	-295		200	-124	30					0	0	0		
23	A				0			0	0		(20)	(20)	(20)			0			A			0							30		30	30	A	1	-295		200	-94	30					0	0	0		
24	S				0	80		0	0			0	80			5			S			0						50	30		80	80	S	31	-245		200	-14	80			0		0	0	0		
25	Feb	0	90	0	90	80	0	0	0	84	(246)	(162)	8	116	0	381	0	0		79	295	374	0	0	40	0	0	50	150	0	240	(134)												0	0	40		
26																																																	
27	Total	180	310	20	374	80	(136)	0	0	104	(255)	(151)	303	116	0	381	0	0		79	479	557	0	0	40	0	0	50	150	103	343	(214)																
28																																																	
29	B(2) Accounting																						EWA Accounting						EWA	SWP	CVP		DWRSIM/ Daily Model																
30																							Upstream Releases						0							SWP	CVP												
31	Net WQCP Storage: Oct - January													116			2/1 cost is 75 kaf.						Water Backed upstream						0																				
32	Net WQCP Flow Changes: February - September													(162)									Total Export Cuts made						557																				
33	WQCP Exports													381			issue on 500 space. No space for						Export Supplies Generated						343				SIM continuous Exports															
34	Total Net WQCP													230			ewa since water is not surplus							E/I						0				SIM yearly exports															
35	Net AFRP storage: Oct - January													284			needed for salt balance.							500 cfs						0				Daily Base Exports															
36	Net AFRP flow changes: February - September													170										JPOD: Excess flows						40				Daily Final Exports															
37	Net Discretionary export b(2) except Section III													116			source shift and increase deliveries							JPOD: EWA storage						0				Change in Exports															
38	Upstream Release Reductions (Oct - Jan)													(9)			by 100 kaf for cvp							Transfer NOD Purchases						50				Final DWRSIM Exports															
39	Upstream Release Reductions (Feb - Sep)													(166)										Net Spill						0				CVP Delivery Cuts															
40	Net Upstream Storage Change (AFRP + WQCP)													295			move 120 kaf of project water in Sept							SOD Purchase						150				Shift for Refuges		Possible in a burst													
41	Net Upstream Release: February - September													8			but with 60 folsom backup, only							SWP Gain						103																				
42	Net Export Change, not including S III.													497			nets 60 reduction in offset.																	F	11															
43	Section 3 water released													0										NOD Water Purchases						50				M	0															
44	Section 3 water exported													0			Move oroville water in september							EWA EOY Balance in CVP SLR						31				A	0															
45	Section 3 Export cuts													0										EWA EOY Balance in SWP SLR						-245				M	132															
46	Gross Upstream fish actions													180			110 of stranded offset							EWA EOY Balance in MWD						0				J	33															
47	Gross Export fish actions													497										Vidler						200				J	0															
48	Gross Fish Actions													720			Issue on shasta storage. Carryover							EWA in Shasta						0				A	0															
49	Net Feb - Sep Export reduction													497			may need to be higher to meet							EWA in Folsom						0				S	0															
50	Total b(2) Spent													800			temp stds. This could constrain							EWA in Oroville						0																				
51	Export cuts beyond WQCP													116			ability to shift storage across.																		165															
52	Unused																problem greater with trinity changes						Use of Excess Banks Capacity for excess flows																											
53	Unused																							Net new pumping allowed						0																				
54	Unused																Oroville strategy could change to							If no debt or EWA storage						0																				
55	Unused																emphasize july - september, since							If no EWA or b(2).						0																				
56	Unused																extra cacity available.						Unused																										
57	Unused																Also means spring release reductions						Unused																										
58	Unused																from oroville						Unused																										
59	Unused																						Unused																										
60	Unused																						Unused																										
61	Unused																						Unused																										

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	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	CALFED GAME 6B															
2	Yea	1982										CVP Accounting				
3																
4		Upstream Balance												Export Balance		
5		Increased			Total	AFRP	AFRP	Cum	Offst	Increas	WQCF	Total	Net	Discret	Increas	WQCF
6		Releases			AFRP	Backed	Reset	Offset	Allowe	WQCF	Reset	WQCF	Upstre	Cuts	Pumping	
7		Shasta	Folsom	New		Water	Offset	Potential			(negative		Balance		(negative	
8				Melones							Offset					
9											Negative					
10	O		45	4	49					20		20	69			0
11	N				0						(20)	(20)	(20)			0
12	D				0							0	0	123		0
13	J			3	3		(52)					0	(49)	89		0
14	EWA Gain Reduction				22	Max R	(52)									
15		0	45	7	74	0	(52)			20	(20)	0	22	212	0	0
16																
17	F				0			0	0			0	0	191		1
18	M				0			0	0			0	0	174		32
19	A				0			0	0			0	0	48		34
20	M				0			0	0			0	0			32
21	J				0			0	0			0	0			0
22	J	30			30			0	0			0	30			0
23	A				0			0	0			0	0			0
24	S				0			0	0			0	0			2
25	Feb	30	0	0	30	0	0	0	0	0	0	0	30	413	0	101
26																
27	Tota	30	45	7	104	0	(52)	0	0	20	(20)	0	52	625	0	101
28																
29	B(2) Accounting															
30																watch for reset this year.
31	Net WQCP Storage: Oct - January													0		
32	Net WQCP Flow Changes: February - September													0		[greater ability to shift storage across
33	WQCP Exports													101		will allow shift to higher upstream carryover
34	Total Net WQCP													101		targets -- less panic to get across during
35	Net AFRP storage: Oct - January													74		every opportunity. This may be good for
36	Net AFRP flow changes: February - September													30		temp control upstream.
37	Net Discretionary export b(2) except Section III													625		
38	Upstream Release Reductions (Oct - Jan)													(20)		90 kaf jpod in baseline
39	Upstream Release Reductions (Feb - Sep)													0		in feb and march each.
40	Net Upstream Storage Change (AFRP + WQCP)													74		
41	Net Upstream Release: February - September													30		higher project storage means more
42	Net Export Change, not including S III.													726		opportunity for afrp releases.
43	Section 3 water released													0		
44	Section 3 water exported													0		higher storage means that upstream
45	Section 3 Export cuts													0		storage is more attractive.
46	Gross Upstream fish actions													30		
47	Gross Export fish actions													726		52 reset. Only usable upstream
48	Gross Fish Actions													830		
49	Net Feb - Sep Export reduction													514		section 3 transfer during July
50	Total b(2) Spent													778		of 500 cfs.
51	Export cuts beyond WQCP													625		treat as ewa water.
52	Unused															
53	Unused															problem of dropping slr too fast
54	Unused			year actually better than in 6a. Got more jpod water, plus												this year, maybe.
55	Unused			moved some of reset water.												
56	Unused															another tier 3 situation.
57	Unused			plus total export cuts are actually lower. Need to understand why												
58	Unused			this is.												assume no payback to mwd.
59	Unused															from last year.
60	Unused			total cuts were similar, but much more b2 this game.												
61	Unused			due to reduced afrp costs. In turn, this may be due to increased												base too high. Would have delivered

	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
1																
2	EWA								EWA Accounting							
3	Upstream					Export			Export Supply Factors							
4	Upstream Balance					Cuts										
5	Increas	Reduced		CVP	SWP	Total	E/I	500 cfs	JPOD	JPOD	Spill	NOD	SOD	SWP E	Sum	Sum
6	Releas	Releases		EWA	EWA	Cuts			split	Not spl	Debt	XFER	XFER	Export	Export	factors
7		(negative		Export	Export						(Storage)				Factors	&Cuts
8				Cuts	Cuts											
9																
10			O			0								21	21	21
11			N			0	82								82	82
12			D		75	75									0	-75
13			J		80	80			105						105	25
14																
15	0	0		0	155	155	82	0	105	0	0	0	0	21	208	53
16																
17			F		18	18			62						62	44
18			M		25	25									0	-25
19			A	7	138	145			36						36	-109
20			M	53	330	383							30		30	-353
21			J		115	115							30		30	-85
22			J			0						30	30		60	60
23			A			0		30					30		60	60
24			S			0		30					30		60	60
25	0	0		60	626	686	0	60	98	0	0	30	150	0	338	(348)
26																
27	0	0		60	781	841	82	60	203	0	0	30	150	21	546	(295)
28																
29							EWA Accounting						EWA	SWP	CVP	
30							Upstream Releases						0			
31							Water Backed upstream						0			
32							Total Export Cuts made						841			
33							Export Supplies Generated						546			
34								E/I					82			
35								500 cfs					60			
36								JPOD: Excess flows					203			
37								JPOD: EWA storage					0			
38								Transfer NOD Purchases					30			
39								Net Spill					0			
40								SOD Purchase					150			
41								SWP Gain					21			
42																
43								NOD Water Purchases					30			
44								EWA EOY Balance in CVP SLR					24			
45								EWA EOY Balance in SWP SLR					-559			
46								EWA EOY Balance in MWD					0			
47								Vidler					200			
48								EWA in Shasta					0			
49								EWA in Folsom					0			
50								EWA in Oroville					0			
51																
52							Use of Excess Banks Capacity for excess flows									
53								Net new pumping allowed					0			
54								If no debt or EWA storage					0			
55								If no EWA or b(2).					0			
56							Unused									
57							Unused									
58							Unused									
59							Unused									
60							Unused									
61							Unused									

	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																
2												Projects				
3				Storage												
4		Negative values for borrowed water														
5		SLR:C	SLR:S	MWD	Vidler	Sum	Chang	Shasta	Folsom	Oroville		SWP S	SWP	CVP	CVP	
6						Export	Export	Storage				500cfs	Gain	JPOD	JPOD	
7						Storage						50%	25%	50%	Not split	
8	Initial															
9	valu	31	-245		200	-14	0	0	0	0						
10	O	137	-356		200	-19	-5					0	7	0		
11	N	137	-274		200	63	82					0	0	0		
12	D	137	-349		200	-12	-75					0	0	0		
13	J	32	-219		200	13	25					0	0	105		
14																
15												0	7	105		
16																
17	F	-30	-114		200	56	43					0	0	62		
18	M	-30	-139		200	31	-25					0	0	0		
19	A	-73	-204		200	-77	-108					0	0	36		
20	M	-96	-534		200	-430	-353					0	0	0		
21	J	-66	-649		200	-515	-85					0	0	0		
22	J	-36	-619		200	-455	60					0	0	0		
23	A	-6	-589		200	-395	60					30	0	0		
24	S	24	-559		200	-335	60					30	0	0		
25												60	0	98		
26																
27																
28																
29	DWRSIM/ Daily Model															
30				SWP	CVP											
31											31	84				
32											84	137				
33	SIM continuous Exports										84	137				
34	SIM yearly exports										84	137				
35	Daily Base Exports										-21	32				
36	Daily Final Exports															
37	Change in Exports															
38	Final DWRSIM Exports															
39	CVP Delivery Cuts										-83	-30				
40	Refuge purchases			no capacity							-83	-30				
41											-126	-73				
42	F	0									-149	-96				
43	M	0									-119	-66				
44	A	0									-89	-36				
45	M	0									-59	-6				
46	J	0									-29	24				
47	J	0														
48	A	0														
49	S	0														
50																
51		0														
52																
53																
54																
55																
56																
57																
58																
59																
60																
61																

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	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	U	V	W	X	Y	Z
1	CALFED GAME 6B																					
2	Year	1983										CVP Accounting					EWA					
3																	Upstream					Export
4		Upstream Balance												Export Balance			Upstream Balance					Cuts
5		Increased			Total	AFRP	AFRP	Cum	Offst	Increas	WQCP	Total	Net	Discret	Increas	WQCF	Increas	Reduced		CVP	SWP	Total
6		Releases			AFRP	Backed	Reset	Offset	Allowe	WQCP	Reset	WQCP	Upstre	Cuts	Pumping		Releas	Releases		EWA	EWA	Cuts
7		Shasta	Folsom	New		Water	Offset	Potential			(negative		Balance		(negative			(negative		Export	Export	
8				Melones							Offset									Cuts	Cuts	
9											Negative											
10	O	120			120							0	120						O			0
11	N				0		(120)					0	(120)	116					N		42	42
12	D				0							0	0	212					D		97	97
13	J				0							0	0	48					J			0
14	EWA Gain Reduction				0	Max Re	(120)	[redacted]					0									
15		120	0	0	120	0	(120)			0	0	0	0	376	0	0	0	0		0	139	139
16																						
17	F				0			0	0			0	0			16			F			0
18	M				0			0	0			0	0	10		(1)			M		3	3
19	A				0			0	0			0	0	73		(2)			A		27	27
20	M				0			0	0			0	0	155		(2)			M		49	49
21	J				0			0	0			0	0	55					J	62	40	102
22	J				0			0	0			0	0						J			0
23	A				0			0	0			0	0						A			0
24	S				0		120	120	120			0	120						S			0
25	Feb	0	0	0	0	0	120	120	120	0	0	0	120	293	0	11	0	0		62	119	181
26																						
27	Tota	120	0	0	120	0	0	120	120	0	0	0	120	669	0	11	0	0		62	258	320
28																						

	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																										
2			EWA Accounting																			Projects				
3			Export Supply Factors											Storage												
4												Negative values for borrowed water														
5	E/I	500 cfs	JPOD	JPOD	Spill	NOD	SOD	SWP E	Sum	Sum		SLR:C	SLR:S	MWD	Vidler	Sum	Chang	Shasta	Folsom	Oroville		SWP S	SWP	CVP	CVP	
6			split	Not spl	Debt	XFER	XFER	Exports	Export	factors						Export	Export	Storage				500cfs	Gain	JPOD	JPOD	
7					(Storage)				Factors	&Cuts						Storage						50%	25%	50%	Not split	
8											Initial															
9											valu	24	-559	0	200	-335	-335	0	0	0						
10								30	30	30	O	24	-529		200	-305	30					0	10	0		
11			153						153	111	N	-129	-265		200	-194	111					0	0	153		
12			140						140	43	D	-269	-83		200	-152	42					0	0	140		
13			102						102	102	J	-251	0		200	-51	101					0	0	102		
14																										
15	0	0	395	0	0	0	0	30	425	286												0	10	395		
16																										
17			68						68	68	F	-183	0		200	17	68					0	0	68		
18			67		116				183	180	M	0	-3		200	197	180					0	0	67		
19									0	-27	A	0	-30		200	170	-27					0	0	0		
20									0	-49	M	0	-79		200	121	-49					0	0	0		
21									0	-102	J	-62	-119		200	19	-102					0	0	0		
22			156						156	156	J	-26	0		200	174	155					0	0	156		
23			90						90	90	A	64	0		200	264	90					0	0	90		
24					-64				-64	-64	S	0	0		200	200	-64					0	0	0		
25	0	0	381	0	52	0	0	0	433	252												0	0	381		
26																										
27	0	0	776	0	52	0	0	30	858	538																
28																										

	A	O	Q	AA	AB	AG	AH	AI	AK	AM	AN	AO
29	B(2) Accounting			EWA Accounting		EWA	SWP	CVP	DWRSIM/ Daily Model			
30			pay back mwd, leads to full	Upstream Releases		0					SWP	CVP
31	Net WQCP Storage: Oct - January	0	pumping in cvp till end of year.	Water Backed upstream		0						
32	Net WQCP Flow Changes: February - September	0	thus clear the books from source shfit.	Total Export Cuts made		320						
33	WQCP Exports	11	for next year.	Export Supplies Generated		858			SIM continuous Exports			
34	Total Net WQCP	11			E/I	0			SIM yearly exports			
35	Net AFRP storage: Oct - January	120	120 kaf of stranded reset water.		500 cfs	0			Daily Base Exports			
36	Net AFRP flow changes: February - September	0			JPOD: Excess flows	776			Daily Final Exports			
37	Net Discretionary export b(2) except Section III	669			JPOD: EWA storage	0			Change in Exports			
38	Upstream Release Reductions (Oct - Jan)	0			Transfer NOD Purchases	0			Final DWRSIM Exports			
39	Upstream Release Reductions (Feb - Sep)	0			Net Spill	52			CVP Delivery Cuts			
40	Net Upstream Storage Change (AFRP + WQCP)	120			SOD Purchase	0			refuges	no capacity for refuges		
41	Net Upstream Release: February - September	0			SWP Gain	30				EWA could have sold water to		
42	Net Export Change, not including S III.	680								refuges		
43	Section 3 water released	0			NOD Water Purchases	0						
44	Section 3 water exported	0			EWA EOY Balance in CVP SLR	0						
45	Section 3 Export cuts	0			EWA EOY Balance in SWP SLR	0						
46	Gross Upstream fish actions	120			EWA EOY Balance in MWD	0						
47	Gross Export fish actions	680			Vidler	200						
48	Gross Fish Actions	800			EWA in Shasta	0						
49	Net Feb - Sep Export reduction	304			EWA in Folsom	0						
50	Total b(2) Spent	800			EWA in Oroville	0						
51	Export cuts beyond WQCP	669										
52	Unused			Use of Excess Banks Capacity for excess flows								
53	Unused				Net new pumping allowed	0						
54	Unused				If no debt or EWA storage	0						
55	Unused				If no EWA or b(2).	0						
56	Unused			Unused								
57	Unused			Unused								
58	Unused			Unused								
59	Unused			Unused								
60	Unused			Unused								
61	Unused			Unused								

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	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	U	V	W	X	Y	Z
1	CALFED GAME 6B																					
2	Year	1984										CVP Accounting					EWA					
3																	Upstream					Export
4		Upstream Balance												Export Balance			Upstream Balance					Cuts
5		Increased			Total	AFRP	AFRP	Cum	Offst	Increas	WQCP	Total	Net	Discre	Increas	WQCP	Increas	Reduced		CVP	SWP	Total
6		Releases			AFRP	Backed	Reset	Offset	Allowe	WQCP	Reset	WQCP	Upstre	Cuts	Pumping		Releas	Releases		EWA	EWA	Cuts
7		Shasta	Folsom	New		Water	Offset	Potential			(negative		Balance		(negative			(negative		Export	Export	
8				Melones							Offset									Cuts	Cuts	
9											Negative											
10	O				0							0	0						O			0
11	N				0							0	0						N			0
12	D				0							0	0						D			0
13	J				0							0	0						J			0
14	EWA Gain Reduction					Max R	0															
15		0	0	0	0	0	0			0	0	0	0	0	0	0	0	0		0	0	0
16																						
17	F	60			60			0	0			0	60	4		18			F			0
18	M	(60)	90		30			0	0			0	30	120		27			M	5		5
19	A		150		150			0	0	137		137	287			62			A	207	84	291
20	M				0			0	0		(3)	(3)	(3)			92			M	169	111	280
21	J				0			0	0		(46)	(46)	(46)			126			J	51	50	101
22	J				0			0	0		(17)	(17)	(17)			0			J	-168	60	-108
23	A				0			0	0		(11)	(11)	(11)			0			A	-60	60	0
24	S				0		46	46	46			0	46			5			S	-60	60	0
25	Feb	0	240	0	240	0	46	46	46	137	(77)	60	346	124	0	330	0	0		144	425	569
26																						
27	Tota	0	240	0	240	0	46	46	46	137	(77)	60	346	124	0	330	0	0		144	425	569
28																						
29	B(2) Accounting																					
30																						
31	Net WQCP Storage: Oct - January													0		assume 108 credit for 2/1						
32	Net WQCP Flow Changes: February - September													60		given in july						
33	WQCP Exports													330								
34	Total Net WQCP													390		again, note problem of dynamic						
35	Net AFRP storage: Oct - January													0		baseline. If there are cuts, then projects						
36	Net AFRP flow changes: February - September													240		want to recover, creating a new baselin						
37	Net Discretionary export b(2) except Section III													124		in real time. Cant charge ewa for this new						
38	Upstream Release Reductions (Oct - Jan)													0		baseline, or are charging twice for same cut.						
39	Upstream Release Reductions (Feb - Sep)													(77)		think about how to do accounting. Probably						
40	Net Upstream Storage Change (AFRP + WQCP)													0		look at total cuts w/r volume slr is short						
41	Net Upstream Release: February - September													300		whichever is less is debt.						
42	Net Export Change, not including S III.													454								
43	Section 3 water released													0		increase 250 kaf to cvp.						
44	Section 3 water exported													0		in baseline						
45	Section 3 Export cuts													0								
46	Gross Upstream fish actions													60		49 offset						
47	Gross Export fish actions													454								
48	Gross Fish Actions													814		look at cvp in march. W/b2 cut, would like to						
49	Net Feb - Sep Export reduction													454		shift up and use jpod. Does ewa have to pay						
50	Total b(2) Spent													800		half of lost recover pumping. A very graphic						
51	Export cuts beyond WQCP													124		demonstration of the problem of rolling baseline						
52	Unused															with b2 cuts as a quasi baseline. Applies only						
53	Unused															when cvp is cut while swp is full.. At worst						
54	Unused															ewa would pay 1/2						
55	Unused															a major circularity problem.						
56	Unused																					
57	Unused															purchase from yuba						
58	Unused																					
59	Unused															shift debt to swp to support cvp						
60	Unused																					
61	Unused															CVP does 100 kaf source shift to avoid hits.						

	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
1										
2			EWA Accounting							
3			Export Supply Factors							
4										
5	E/I	500 cfs	JPOD	JPOD	Spill	NOD	SOD	SWP E	Sum	Sum
6			split	Not spl	Debt	XFER	XFER	Export	Export	factors
7					(Storage)				Factors	&Cuts
8										
9										
10					0				0	0
11									0	0
12									0	0
13									0	0
14										
15	0	0	0	0	0	0	0	0	0	0
16										
17									0	0
18									0	-5
19									0	291
20							30		30	250
21							30		30	-71
22						35	30		65	173
23							30		30	30
24			30				30		60	60
25	0	0	30	0	0	35	150	0	215	(354)
26										
27	0	0	30	0	0	35	150	0	215	(354)
28										
29	EWA Accounting						EWA	SWP	CVP	
30	Upstream Releases						0			
31	Water Backed upstream						0			
32	Total Export Cuts made						569			
33	Export Supplies Generated						215			
34		E/I					0			
35		500 cfs					0			
36		JPOD: Excess flows					30			
37		JPOD: EWA storage					0			
38		Transfer NOD Purchases					35			
39		Net Spill					0			
40		SOD Purchase					150			
41		SWP Gain					0			
42										
43		NOD Water Purchases					35			
44		EWA EOY Balance in CVP SLR					-24			
45		EWA EOY Balance in SWP SLR					-331			
46		EWA EOY Balance in MWD					0			
47		Vidler					200			
48		EWA in Shasta					0			
49		EWA in Folsom					0			
50		EWA in Oroville					0			
51										
52	Use of Excess Banks Capacity for excess flows									
53		Net new pumping allowed					0			
54		If no debt or EWA storage					0			
55		If no EWA or b(2).					0			
56	Unused									
57	Unused									
58	Unused									
59	Unused									
60	Unused									
61	Unused									

	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																
2												Projects				
3				Storage												
4		Negative values for borrowed water														
5		SLR:C	SLR:S	MWD	Vidler	Sum	Chang	Shasta	Folsom	Oroville		SWP S	SWP	CVP	CVP	
6						Export	Export	Storage				500cfs	Gain	JPOD	JPOD	
7						Storage						50%	25%	50%	Not split	
8	Initial										New					
9	valu	0	0		200	200	0	0	0	0	Melones					
10	O	0	0		200	200	0					0	0	0		
11	N	0	0		200	200	0					0	0	0		
12	D	0	0		200	200	0					0	0	0		
13	J	0	0		200	200	0					0	0	0		
14																
15												0	0	0		
16																
17	F	0	0		200	200	0					0	0	0		
18	M	-5	0		200	195	-5					0	0	0		
19	A	-212	-84		200	-96	-291					0	0	0		
20	M	-351	-195		200	-346	-250					0	0	0		
21	J	-372	-245		200	-417	-71					0	0	0		
22	J	-174	-270		200	-244	173					0	0	0		
23	A	-84	-330		200	-214	30					0	0	0		
24	S	-24	-331		200	-155	59					0	0	30		
25												0	0	30		
26																
27																
28																
29	DWRSIM/ Daily Model															
30				SWP	CVP											
31																
32																
33	SIM continuous Exports															
34	SIM yearly exports															
35	Daily Base Exports															
36	Daily Final Exports															
37	Change in Exports															
38	Final DWRSIM Exports															
39	CVP Delivery Cuts															
40	refuges	no transfer capacity														
41		but could delivery from surpluses														
42	F	0														
43	M	0														
44	A	0														
45	M	3	project change in baseline eliminates this offset													
46	J	46														
47	J	0														
48	A	0														
49	S	0														
50																
51		49														
52																
53																
54																
55																
56																
57																
58																
59																
60																
61																

	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	CALFED GAME 6B															
2	Year	1985										CVP Accounting				
3																
4		Upstream Balance												Export Balance		
5		Increased			Total	AFRP	AFRP	Cum	Offst	Increas	WQCF	Total	Net	Discret	Increas	WQCF
6		Releases			AFRP	Backed	Reset	Offset	Allowe	WQCF	Reset	WQCF	Upstre	Cuts	Pumping	
7		Shasta	Folsom	New		Water	Offset	Potential			(negative		Balance		(negative	
8				Melones							Offset					
9											Negative					
10	O		53	8	61					60		60	121			60
11	N			5	5						(60)	(60)	(55)	30		(60)
12	D			5	5							0	5			
13	J	90	37	8	135					42		42	177			
14	EWA Gain Reduction					Max Reset										
15		90	90	25	205	0	0			102	(60)	42	247	30	0	0
16																
17	F	75		8	83			0	0	38		38	121			18
18	M	75	54		129			0	0		(12)	(12)	117			24
19	A	75		30	105		(30)	(30)	(30)		(40)	(40)	35			45
20	M	(180)	75	30	(75)			0	0		(158)	(158)	(233)			124
21	J		68		68			0	0		(62)	(62)	6			102
22	J				0			0	0	84		84	84			0
23	A				0			0	0		(24)	(24)	(24)			0
24	S				0			0	0			0	0			5
25	Feb	45	197	68	310	0	(30)	(30)	(30)	122	(296)	(174)	106	0	0	418
26																
27	Tota	135	287	93	515	0	(30)	(30)	(30)	224	(356)	(132)	353	30	0	418
28																
29	B(2) Accounting															
30																
31	Net WQCP Storage: Oct - January													42		
32	Net WQCP Flow Changes: February - September													(174)		
33	WQCP Exports													418		
34	Total Net WQCP													286		
35	Net AFRP storage: Oct - January													205		
36	Net AFRP flow changes: February - September													310		
37	Net Discretionary export b(2) except Section III													30		
38	Upstream Release Reductions (Oct - Jan)													(60)		
39	Upstream Release Reductions (Feb - Sep)													(296)		
40	Net Upstream Storage Change (AFRP + WQCP)													247		
41	Net Upstream Release: February - September													136		
42	Net Export Change, not including S III.													448		
43	Section 3 water released													0		
44	Section 3 water exported													0		
45	Section 3 Export cuts													0		
46	Gross Upstream fish actions													135		
47	Gross Export fish actions													448		
48	Gross Fish Actions													831		
49	Net Feb - Sep Export reduction													418		
50	Total b(2) Spent													801		
51	Export cuts beyond WQCP													30		
52	Unused															
53	Unused															
54	Unused															
55	Unused															
56	Unused															
57	Unused															
58	Unused															
59	Unused															
60	Unused															
61	Unused															

	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
1																
2	EWA								EWA Accounting							
3	Upstream					Export			Export Supply Factors							
4	Upstream Balance					Cuts										
5	Increas	Reduced		CVP	SWP	Total	E/I	500 cfs	JPOD	JPOD	Spill	NOD	SOD	SWP E	Sum	Sum
6	Releas	Releases		EWA	EWA	Cuts			split	Not spl	Debt	XFER	XFER	Exports	Export	factors
7		(negative		Export	Export						(Storage)				Factors	&Cuts
8				Cuts	Cuts											
9																
10			O			0								29	29	29
11			N	88	42	130			72					3	75	-55
12			D	89	39	128			125						125	-3
13			J			0			83		170				253	253
14																
15	0	0		177	81	258	0	0	280	0	170	0	0	32	482	224
16																
17			F	84	19	103					108			10	118	15
18			M	120	(87)	33								20	20	-13
19			A	94	56	150									0	-150
20			M	36	31	67							30	3	33	-34
21			J	10	10	20							30	12	42	22
22			J	-135	60	-75							30		30	105
23			A	-61	61	0							30		30	30
24			S			0						50	30		80	80
25	0	0		148	150	298	0	0	0	0	108	50	150	45	353	55
26																
27	0	0		325	231	556	0	0	280	0	278	50	150	77	835	279
28																
29							EWA Accounting						EWA	SWP	CVP	
30							Upstream Releases						0			
31							Water Backed upstream						0			
32							Total Export Cuts made						556			
33							Export Supplies Generated						835			
34								E/I					0			
35								500 cfs					0			
36								JPOD: Excess flows					280			
37								JPOD: EWA storage					0			
38								Transfer NOD Purchases					50			
39								Net Spill					278			
40								SOD Purchase					150			
41								SWP Gain					77			
42																
43								NOD Water Purchases					50			
44								EWA EOY Balance in CVP SLR					u			
45								EWA EOY Balance in SWP SLR					-55			
46								EWA EOY Balance in MWD					0			
47								Vidler					200			
48								EWA in Shasta					0			
49								EWA in Folsom					0			
50								EWA in Oroville					0			
51																
52							Use of Excess Banks Capacity for excess flows									
53								Net new pumping allowed					0			
54								If no debt or EWA storage					0			
55								If no EWA or b(2).					0			
56							Unused									
57							Unused									
58							Unused									
59							Unused									
60							Unused									
61							Unused									

	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																
2												Projects				
3				Storage												
4		Negative values for borrowed water														
5		SLR:C	SLR:S	MWD	Vidler	Sum	Chang	Shasta	Folsom	Oroville	New	SWP S	SWP	CVP	CVP	
6						Export	Export	Storage			Melone	500cfs	Gain	JPOD	JPOD	
7						Storage						50%	25%	50%	Not split	
8	Initial															
9	valu	-24	-340		200	-164	0	0	0	0	50					
10	O	-24	-311		200	-135	29				41	0	9.667	0		
11	N	-180	-208		200	-188	-53				35	0	11	72		
12	D	-394	0		200	-194	-6				29	0	0	25		
13	J	-141	0		200	59	253				21	0	0	83		
14																
15												0	11	280		
16																
17	F	-117	-9		200	74	15				21	0	3.333	0		
18	M	-237	98		200	61	-13				21	0	6.667	0		
19	A	-331	42		200	-89	-150				21	0	0	0		
20	M	-337	14		200	-123	-34				21	0	1	0		
21	J	-317	16		200	-101	22				21	0	4	0		
22	J	-152	-44		200	4	105				21	0	0	0		
23	A	-62	-105		200	33	29				21	0	0	0		
24	S	u	-55		200	145	112	0			12	0	0	0		
25												0	15	0		
26																
27																
28																
29	DWRSIM/ Daily Model															
30				SWP	CVP											
31																
32																
33	SIM continuous Exports															
34	SIM yearly exports															
35	Daily Base Exports															
36	Daily Final Exports															
37	Change in Exports															
38	Final DWRSIM Exports															
39	CVP Delivery Cuts															
40	reguges															
41																
42	F	0														
43	M	0														
44	A	0														
45	M	124														
46	J	0														
47	J	0														
48	A	0														
49	S	0														
50																
51		124														
52																
53																
54																
55																
56																
57																
58																
59																
60																
61																

D—055777

D-055777

	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	CALFED GAME 6B															
2	Year	1986										CVP Accounting				
3																
4		Upstream Balance												Export Balance		
5		Increased			Total	AFRP	AFRP	Cum	Offst	Increas	WQCF	Total	Net	Discret	Increas	WQCF
6		Releases			AFRP	Backed	Reset	Offset	Allowe	WQCF	Reset	WQCF	Upstre	Cuts	Pumping	
7		Shasta	Folsom	New		Water	Offset	Potential			(negative		Balance		(negative	
8				Melones							Offset					
9											Negative					
10	O		60	7	67		(120)			8		8	(45)			12
11	N		52	2	54					3		3	57			(12)
12	D	75	53	2	130							0	130	89		
13	J	75		6	81		(135)					0	54	137		
14	EWA Gain Reduction					Max Reset										
15		150	165	17	332	0	(255)			11	0	11	88	226	0	0
16																
17	F				0			0	0		(11)	(11)	(11)	127		20
18	M				0			0	0			0	0			23
19	A	105			105			0	0			0	105	11		31
20	M				0			0	0			0	0			35
21	J				0			0	0			0	0			50
22	J				0			0	0	70		70	70			0
23	A				0			0	0			0	0			0
24	S				0		20	20	20			0	20			5
25	Feb	105	0	0	105	0	20	20	20	70	(11)	59	184	138	0	164
26																
27	Tota	255	165	17	437	0	(235)	20	20	81	(11)	70	272	364	0	164
28																
29	B(2) Accounting															
30																
31	Net WQCP Storage: Oct - January													11		
32	Net WQCP Flow Changes: February - September													59		
33	WQCP Exports													164		
34	Total Net WQCP													234		
35	Net AFRP storage: Oct - January													77		
36	Net AFRP flow changes: February - September													105		
37	Net Discretionary export b(2) except Section III													364		
38	Upstream Release Reductions (Oct - Jan)													0		
39	Upstream Release Reductions (Feb - Sep)													(11)		
40	Net Upstream Storage Change (AFRP + WQCP)													88		
41	Net Upstream Release: February - September													164		
42	Net Export Change, not including S III.													528		
43	Section 3 water released													0		
44	Section 3 water exported													0		
45	Section 3 Export cuts													0		
46	Gross Upstream fish actions													325		
47	Gross Export fish actions													528		
48	Gross Fish Actions													105		
49	Net Feb - Sep Export reduction													302		
50	Total b(2) Spent													800		
51	Export cuts beyond WQCP													364		
52	Unused															
53	Unused															
54	Unused				In corrected version, found a problem with math]											
55	Unused				backed up water in October and January should credit against											
56	Unused				b2, but this was not done in game. Correcting will shift large											
57	Unused				amounts of debt off ewa for this year. However, given that											
58	Unused				slr fills, the error is probably limited to this year.											
59	Unused															
60	Unused															
61	Unused															

	U	V	W	X	Y	Z
1						
2	EWA					
3	Upstream					Export
4	Upstream Balance					Cuts
5	Increas	Reduced		CVP	SWP	Total
6	Releas	Releases		EWA	EWA	Cuts
7		(negative		Export	Export	
8				Cuts	Cuts	
9						
10			O		50	50
11			N			0
12			D		73	73
13			J		92	92
14						
15	0	0		0	215	215
16						
17			F	16	149	165
18			M			0
19			A	38	56	94
20			M	209	5	214
21			J	99	-32	67
22			J			0
23			A			0
24			S			0
25	0	0		362	178	540
26						
27	0	0		362	393	755
28						
29						
30						
31						
32						
33						
34						
35						
36						
37						
38						
39						
40						
41						
42						
43						
44						
45						
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47						
48						
49						
50						
51						
52						
53						
54						
55						
56						
57						
58						
59						
60						
61						

	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
1										
2			EWA Accounting							
3			Export Supply Factors							
4										
5	E/I	500 cfs	JPOD	JPOD	Spill	NOD	SOD	SWP E	Sum	Sum
6			split	Not spl	Debt	XFER	XFER	Exports	Export	factors
7					(Storage)				Factors	&Cuts
8										
9										
10									0	50
11	50							20	70	70
12									0	73
13									0	92
14										
15	50	0	0	0	0	0	0	20	70	(145)
16										
17					93				93	72
18			128		10				138	138
19					89				89	-5
20							30		30	184
21							30		30	37
22		30					30		60	60
23		30					30		60	60
24	12					60	30		102	102
25	12	60	128	0	192	60	150	0	602	62
26										
27	62	60	128	0	192	60	150	20	672	(83)
28										
29	EWA Accounting						EWA	SWP	CVP	
30	Upstream Releases						0			
31	Water Backed upstream						0			
32	Total Export Cuts made						755			
33	Export Supplies Generated						672			
34		E/I					62			
35		500 cfs					60			
36		JPOD: Excess flows					128			
37		JPOD: EWA storage					0			
38		Transfer NOD Purchases					60			
39		Net Spill					192			
40		SOD Purchase					150			
41		SWP Gain					20			
42										
43		NOD Water Purchases					60			
44		EWA EOY Balance in CVP SLR					-214			
45		EWA EOY Balance in SWP SLR					43			
46		EWA EOY Balance in MWD					0			
47		Vidler					200			
48		EWA in Shasta					0			
49		EWA in Folsom					0			
50		EWA in Oroville					0			
51										
52	Use of Excess Banks Capacity for excess flows									
53		Net new pumping allowed					0			
54		If no debt or EWA storage					0			
55		If no EWA or b(2).					0			
56	Unused									
57	Unused									
58	Unused									
59	Unused									
60	Unused									
61	Unused									

	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																
2												Projects				
3																
4				Storage												
5		Negative values for borrowed water														
6		SLR:C	SLR:S	MWD	Vidler	Sum	Chang	Shasta	Folsom	Oroville	New	SWP S	SWP	CVP	CVP	
7						Export	Export	Storage			Melone	500cfs	Gain	JPOD	JPOD	
8						Storage						50%	25%	50%	Not split	
9	Initial															
10	valu	-32	-55		200	113	0		0	0	62					
11	O	-32	-105		200	63	-50				55	0	0	0		
12	N	-32	-35		200	133	70				53	0	6.667	0		
13	D	-32	-108		200	60	-73				51	0	0	0		
14	J	-32	-200		200	-32	-92				45	0	0	0		
15												0	7	0		
16																
17	F	-48	-256		200	-104	-72				45	0	0	0		
18	M	-167	0		200	33	137				45	0	0	128		
19	A	-116	-56		200	28	-5				45	0	0	0		
20	M	-295	-61		200	-156	-184				45	0	0	0		
21	J	-364	-29		200	-193	-37				45	0	0	0		
22	J	-334	1		200	-133	60				45	30	0	0		
23	A	-304	31		200	-73	60				45	30	0	0		
24	S	-214	43		200	29	102				45	0	0	0		
25												60	0	128		
26																
27																
28																
29	DWRSIM/ Daily Model															
30				SWP	CVP											
31																
32																
33	SIM continuous Exports															
34	SIM yearly exports															
35	Daily Base Exports															
36	Daily Final Exports															
37	Change in Exports															
38	Final DWRSIM Exports															
39	CVP Delivery Cuts															
40	refuges. Level 4 could move in november															
41																
42	F	11														
43	M	0														
44	A	0														
45	M	0														
46	J	0														
47	J	0														
48	A	0														
49	S	0														
50																
51		11														
52																
53																
54																
55																
56																
57																
58																
59																
60																
61																

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	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
1	CALFED GAME 6B																															
2	Year	1987										CVP Accounting					EWA								EWA Accounting							
3																	Upstream					Export			Export Supply Factors							
4		Upstream Balance												Export Balance			Upstream Balance					Cuts										
5		Increased		Total	AFRP	AFRP	Cum	Offst	Increas	WQCP	Total	Net	Discret	Increas	WQCP	Increas	Reduced	CVP	SWP	Total	E/I	500 cfs	JPOD	JPOD	Spill	NOD	SOD	SWP E	Sum	Sum
6		Releases		AFRP	Backed	Reset	Offset	Allowe	WQCP	Reset	WQCP	Upstre	Cuts	Pumping		Releas	Releases	EWA	EWA	Cuts			split	Not spl	Debt	XFER	XFER	Exports	Export	factors
7		Shasta	Folsom	New	Water	Offset	Potential			(negative		Balance		(negative			(negative	Export	Export						(Storage)				Factors	&Cuts
8				Melones						Offset								Cuts	Cuts											
9										Negative																				
10	O		83	9	92					20		20	112						O			0							30	30	30
11	N		68	7	75						(23)	(23)	52						N			0							37	37	37
12	D		48	7	55					27		27	82	41					D		-41	-41							25	25	66
13	J	36	36	7	79						(154)	(154)	(75)						J			0	60				-34			26	26
14	EWA Gain Reduction					Max Re	0																									
15		36	234	30	300	0	0			47	(177)	(130)	170	41	0	0	0	0		0	(41)	(41)	60	0	0	0	(34)	0	0	92	118	159
16																																
17	F	36			36			0	0	5		5	41			17			F	80	3	83					92				92	9
18	M	36			36			0	0			0	36			23			M	48	92	140					139				139	-1
19	A				0		(146)	(146)	(146)	146		146	0	29		131			A	41	16	57									0	-57
20	M				0			0	0		(121)	(121)	(121)			173			M	9	9	18							30		30	12
21	J				0			0	0	141		141	141			74			J	67	67	134							30		30	104
22	J				0			0	0	54		54	54						J			0							30		30	30
23	A				0			0	0		(21)	(21)	(21)						A			0						50	30		80	80
24	S				0		50	50	50	1		1	51			(30)			S			0							30		30	30
25	Feb	72	0	0	72	0	(96)	(96)	(96)	347	(142)	205	181	29	0	388	0	0		245	187	432	0	0	0	0	231	50	150	0	431	(1)
26																																
27	Tota	108	234	30	372	0	(96)	(96)	(96)	394	(319)	75	351	70	0	388	0	0		245	146	391	60	0	0	0	197	50	150	92	549	158
28																																
29	B(2) Accounting																						EWA Accounting						EWA	SWP	CVP
30																							Upstream Releases						0		
31	Net WQCP Storage: Oct - January													(130)		over cap by 13							Water Backed upstream						0		
32	Net WQCP Flow Changes: February - September													205									Total Export Cuts made						391		
33	WQCP Exports													388		[Note: cannot extinguish CVP							Export Supplies Generated						549		
34	Total Net WQCP													463		debt before SWP debt. If CVP								E/I					60		
35	Net AFRP storage: Oct - January													300		SLR fills, then debt is shifted over the SWP.								500 cfs					0		
36	Net AFRP flow changes: February - September													72		Like a JPOD with 100% going to SWP]								JPOD: Excess flows					0		
37	Net Discretionary export b(2) except Section III													70		*{check 6a on this]*								JPOD: EWA storage					0		
38	Upstream Release Reductions (Oct - Jan)]													(177)		bump deliveries by 100 kaf.								Transfer NOD Purchases					50		
39	Upstream Release Reductions (Feb - Sep)													(142)										Net Spill					197		
40	Net Upstream Storage Change (AFRP + WQCP)													170		what about interaction between afrp in fall								SOD Purchase					150		
41	Net Upstream Release: February - September													277		and exports. If afrp causes reduction in exports								SWP Gain					92		
42	Net Export Change, not including S III.													458		then is this charged to b2? Orwould that be															
43	Section 3 water released													0		double counting. Perhaps charge to b2 to								NOD Water Purchases					50		
44	Section 3 water exported													0		extent that this water picked up as state gain.								EWA EOY Balance in CVP SLR					83		
45	Section 3 Export cuts													0										EWA EOY Balance in SWP SLR					-95		
46	Gross Upstream fish actions													183		121 offset.								EWA EOY Balance in MWD					0		
47	Gross Export fish actions													458										Vidler					200		
48	Gross Fish Actions													980		big reop of shasta and folsom in the base								EWA in Shasta					0		
49	Net Feb - Sep Export reduction													417		Net is about 40 kaf more exports in august.								EWA in Folsom					0		
50	Total b(2) Spent													809		plus 30 kaf of export increases fromj wqcp								EWA in Oroville					0		
51	Export cuts beyond WQCP													70		in September															
52	Unused																						Use of Excess Banks Capacity for excess flows								
53	Unused			look at january carefully. Went into jpod, so the afrp was picked up												so net offset credit is 70 kaf, levaing								Net new pumping allowed					0		
54	Unused			under jpod												50 kaf								If no debt or EWA storage					0		
55	Unused															but over cap by 13 so shoot for 813								If no EWA or b(2).					0		
56	Unused																						Unused								
57	Unused															backed 146 in april.							Unused								
58	Unused																						Unused								
59	Unused															**Corrected version: one week december**							Unused								
60	Unused															cut in cvp not matched with overall cut. So							Unused								
61	Unused															just shifts pumping to state.							Unused								

	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																
2												Projects				
3				Storage												
4		Negative values for borrowed water														
5		SLR:C	SLR:S	MWD	Vidler	Sum	Chang	Shasta	Folsom	Oroville	New	SWP S	SWP	CVP	CVP	
6						Export	Export	Storage			Melone	500cfs	Gain	JPOD	JPOD	
7						Storage						50%	25%	50%	Not split	
8	Initial															
9	valu	-214	43		200	29	0		0	0						
10	O	-214	73		200	59	30					0	10	0		
11	N	-214	110		200	96	37					0	12.33	0		
12	D	-214	176		200	162	66					0	8.333	0		
13	J	-12	0		200	188	26					0	0	0		
14																
15												0	31	0		
16																
17	F	0	-3		200	197	9					0	0	0		
18	M	0	-3		200	197	0					0	0	0		
19	A	-41	-19		200	140	-57					0	0	0		
20	M	-20	-28		200	152	12					0	0	0		
21	J	-57	-95		200	48	-104					0	0	0		
22	J	-27	-95		200	78	30					0	0	0		
23	A	53	-95		200	158	80					0	0	0		
24	S	83	-95		200	188	30					0	0	0		
25												0	0	0		
26																
27																
28																
29	DWRSIM/ Daily Model															
30				SWP	CVP											
31																
32																
33	SIM continuous Exports															
34	SIM yearly exports															
35	Daily Base Exports															
36	Daily Final Exports															
37	Change in Exports															
38	Final DWRSIM Exports															
39	CVP Delivery Cuts															
40	refuges ok															
41																
42	F	0														
43	M	0														
44	A	0														
45	M	121														
46	J	0														
47	J	0														
48	A	0														
49	S	0														
50																
51		121														
52																
53																
54																
55																
56																
57																
58																
59																
60																
61																

	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	CALFED GAME 6															
2	Year	1988										CVP Accounting				
3																
4		Upstream Balance												Export Balance		
5		Increased			Total	AFRP	AFRP	Cum	Offst	Increas	WQCP	Total	Net	Discret	Increas	WQCP
6		Releases			AFRP	Backed	Reset	Offset	Allowe	WQCP	Reset	WQCP	Upstre	Cuts	Pumping	
7		Shasta	Folsom	New		Water	Offset	Potential			(negative		Balance		(negative	
8				Melones							Offset					
9											Negative					
10	O			4	4					29		29	33			(9)
11	N				0					61		61	61			(71)
12	D				0							0	0	168		
13	J		8		8						(2)	(2)	6	106		
14	EWA Gain Reduction					Max R[illegible]	0									
15		0	8	4	12	0	0			90	(2)	88	100	274	0	(80)
16																
17	F		8		8			0	0	178		178	186			94
18	M		7	3	10			0	0	137		137	147			39
19	A		9		9			0	0		(322)	(322)	(313)			212
20	M		2		2			0	0			0	2			117
21	J				0			0	0	222		222	222			(51)
22	J				0			0	0	71		71	71			(48)
23	A				0			0	0			0	0			(60)
24	S				0		35	35	35			0	35			(18)
25	Feb	0	26	3	29	0	35	35	35	608	(322)	286	350	0	0	285
26																
27	Tota	0	34	7	41	0	35	35	35	698	(324)	374	450	274	0	205

	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
1																
2	EWA								EWA Accounting							
3	Upstream					Export			Export Supply Factors							
4	Upstream Balance					Cuts										
5	Increas	Reduced		CVP	SWP	Total	E/I	500 cfs	JPOD	JPOD	Spill	NOD	SOD	SWP E	Sum	Sum
6	Releas	Releases		EWA	EWA	Cuts			split	Not spl	Debt	XFER	XFER	Export	Export	factors
7		(negative		Export	Export						(Storage)				Factors	&Cuts
8				Cuts	Cuts											
9																
10			O			0									0	0
11			N			0									0	0
12			D		85	85	43								43	-42
13			J	106	44	150									0	-150
14																
15	0	0		106	129	235	43	0	0	0	0	0	0	0	43	(192)
16																
17			F	4	4	8									0	-8
18			M	23	23	46									0	-46
19			A	8	8	16									0	-16
20			M	23	(15)	8							30		30	22
21			J	87	-46	41							30		30	-11
22			J	0		0						60	30		90	90
23			A			0							30		30	30
24			S			0							30		30	30
25	0	0		145	(26)	119	0	0	0	0	0	60	150	0	210	91
26																
27	0	0		251	103	354	43	0	0	0	0	60	150	0	253	(101)

	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																
2												Projects				
3				Storage												
4		Negative values for borrowed water														
5		SLR:C	SLR:S	MWD	Vidler	Sum	Change	Shasta	Folsom	Oroville	New	SWP S	SWP	CVP	CVP	
6						Export	Export	Storage			Melone	500cfs	Gain	JPOD	JPOD	
7						Storage						50%	25%	50%	Not split	
8	Initial															
9	valu	83	-95		200	188	0		0	0						
10	O	83	-95		200	188	0					0	0	0		
11	N	83	-95		200	188	0					0	0	0		
12	D	88	-142		200	146	-42					0	0	0		
13	J	-18	-186		200	-4	-150					0	0	0		
14																
15												0	0	0		
16																
17	F	-22	-190		200	-12	-8					0	0	0		
18	M	-45	-213		200	-58	-46					0	0	0		
19	A	-53	-221		200	-74	-16					0	0	0		
20	M	4	-186	-50	180	-52	22					0	0	0		
21	J	-3	-120	-100	160	-63	-11					0	0	0		
22	J	137	-100	-150	140	27	90					0	0	0		
23	A	217	-80	-200	120	57	30					0	0	0		
24	S	247	-60	-200	100	87	30					0	0	0		
25												0	0	0		

	A	Notes (E–N)	O	Notes (Q–Y)
29	B(2) Accounting			
30				reduced baseline deliveries by
31	Net WQCP Storage: Oct - January		88	150/100 swp/cvp
32	Net WQCP Flow Changes: February - September		286	
33	WQCP Exports		205	offsedt of 212
34	Total Net WQCP		579	recover 177. Net 35
35	Net AFRP storage: Oct - January		12	over cap by 129
36	Net AFRP flow changes: February - September		29	
37	Net Discretionary export b(2) except Section III		274	100 source shift first for swp
38	Upstream Release Reductions (Oct - Jan)		(2)	second 100 for cvp
39	Upstream Release Reductions (Feb - Sep)		(322)	
40	Net Upstream Storage Change (AFRP + WQCP)		100	groundwater goes to state side.
41	Net Upstream Release: February - September		315	
42	Net Export Change, not including S III.		479	100 kaf b2 cut.
43	Section 3 water released		0	
44	Section 3 water exported		0	state baseline is still too high
45	Section 3 Export cuts		0	this would solve low point problem
46	Gross Upstream fish actions		374	
47	Gross Export fish actions		479	
48	Gross Fish Actions		1268	
49	Net Feb - Sep Export reduction		285	
50	Total b(2) Spent		929	
51	Export cuts beyond	note that collateral must be thought of in terms of time horizon.	274	
52	Unused	there is collateral until lowpoint (this year) and collateral until		
53	Unused	lowpoint next year.		
54	Unused			
55	Unused	if baseline corrected, then evrything shifts up. But since we made		
56	Unused	a swp cut to bring up to base, this would not longer be needed (or		
57	Unused	not as much). Need to see how could come out.		
58	Unused			
59	Unused	this year shows value of nod contingency options.		
60	Unused			
61	Unused	Also, note how offset improves cvp position by forcing cuts onto ewa.		

	EWA Accounting	EWA	SWP	CVP
29	EWA Accounting	EWA	SWP	CVP
30	Upstream Releases	0		
31	Water Backed upstream	0		
32	Total Export Cuts made	354		
33	Export Supplies Generated	253		
34	E/I	43		
35	500 cfs	0		
36	JPOD: Excess flows	0		
37	JPOD: EWA storage	0		
38	Transfer NOD Purchases	60		
39	Net Spill	0		
40	SOD Purchase	150		
41	SWP Gain	0		
42				
43	NOD Water Purchases	60		
44	EWA EOY Balance in CVP SLR	247		
45	EWA EOY Balance in SWP SLR	-60		
46	EWA EOY Balance in MWD	-200		
47	Vidler	100		
48	EWA in Shasta	0		
49	EWA in Folsom	0		
50	EWA in Oroville	0		
51				
52	Use of Excess Banks Capacity for excess flows			
53	Net new pumping allowed	0		
54	If no debt or EWA storage	0		
55	If no EWA or b(2).	0		
56	Unused			
57	Unused			
58	Unused			
59	Unused			
60	Unused			
61	Unused			

	AK	AL	AM	AN	AO
29	DWRSIM/ Daily Model				
30				SWP	CVP
33	SIM continuous Exports				
34	SIM yearly exports				
35	Daily Base Exports				
36	Daily Final Exports				
37	Change in Exports				
38	Final DWRSIM Exports				
39	CVP Delivery Cuts				
40	refuges				
42	F	0			
43	M	0			
44	A	212			
45	M	0			
46	J	0			
47	J	0			
48	A	0			
49	S	0			
51		212			

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	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
1	CALFED GAME 6B																															
2	Year	1989										CVP Accounting					EWA								EWA Accounting							
3																	Upstream					Export			Export Supply Factors							
4		Upstream Balance												Export Balance			Upstream Balance					Cuts										
5		Increased			Total	AFRP	AFRP	Cum	Offst	Increas	WQCP	Total	Net	Discret	Increas	WQCP	Increas	Reduced		CVP	SWP	Total	E/I	500 cfs	JPOD	JPOD	Spill	NOD	SOD	SWP E	Sum	Sum
6		Releases			AFRP	Backed	Reset	Offset	Allowe	WQCP	Reset	WQCP	Upstre	Cuts	Pumping		Releas	Releases		EWA	EWA	Cuts			split	Not spl	Debt	XFER	XFER	Exports	Export	factors
7		Shasta	Folsom	New		Water	Offset	Potential			(negative		Balance		(negative			(negative		Export	Export						(Storage)				Factors	&Cuts
8				Melones							Offset									Cuts	Cuts											
9											Negative																					
10	O				0						(14)	(14)	(14)						O			0									0	0
11	N	30			30							0	30		(25)	(3)			N			0	57								57	57
12	D	30			30							0	30		(11)	(7)			D			0								8	8	8
13	J		15		15						1	1	16	89		(217)			J		2	2								5	5	3
14	EWA Gain Reduction					Max Re	0																									
15		60	15	0	75	0	0			0	(13)	(13)	62	89	(36)	(227)	0	0		0	2	2	57	0	0	0	0	0	0	13	70	68
16																																
17	F		23		23			0	0	64		64	87			212			F			0	97								97	97
18	M				0		(23)	(23)	(23)			0	(23)						M	7	183	190									0	190
19	A				0			0	0			0	0			109			A	38	141	179									0	179
20	M				0			0	0	80		80	80			223			M	35	35	70							30		30	40
21	J				0			0	0		(248)	(248)	(248)			180			J			0							30		30	30
22	J				0			0	0	99		99	99						J	46	8	54							30		30	24
23	A				0			0	0			0	0						A			0							30		30	30
24	S				0		120	120	120		0	0	120			3			S			0						50	30		80	80
25	Feb	0	23	0	23	0	97	97	97	243	(248)	(5)	115	0	0	727	0	0		126	367	493	97	0	0	0	0	50	150	0	297	(196)
26																																
27	Tota	60	38	0	98	0	97	97	97	243	(261)	(18)	177	89	(36)	500	0	0		126	369	495	154	0	0	0	0	50	150	13	367	(128)
28																																
29	B(2) Accounting																															
30															no change in base deliveries																	
31	Net WQCP Storage: Oct - January													(13)																		
32	Net WQCP Flow Changes: February - September													(5)	way over 640 limit.																	
33	WQCP Exports													500																		
34	Total Net WQCP													482	must meet wqcp, so maybe ok. But canno																	
35	Net AFRP storage: Oct - January													75	do b2 cuts in addition.																	
36	Net AFRP flow changes: February - September													23																		
37	Net Discretionary export b(2) except Section III													53	180 offset																	
38	Upstream Release Reductions (Oct - Jan)I													(13)																		
39	Upstream Release Reductions (Feb - Sep)													(248)	baseline shift:																	
40	Net Upstream Storage Change (AFRP + WQCP)													62	60 k in june on net.																	
41	Net Upstream Release: February - September													18	reduced offset to 120																	
42	Net Export Change, not including S III.													553																		
43	Section 3 water released													0	30 over cap -- shoot for 830																	
44	Section 3 water exported													0																		
45	Section 3 Export cuts													0	97 e/l -- 32 to feds.																	
46	Gross Upstream fish actions													60																		
47	Gross Export fish actions													589																		
48	Gross Fish Actions													669																		
49	Net Feb - Sep Export reduction													727																		
50	Total b(2) Spent													730																		
51	Export cuts beyond WQCP													89																		
52	Unused																															
53	Unused			back 120 into shasta may, then rerelease in june.																												
54	Unused			reflect as changeds in exports for the two months.																												
55	Unused																															
56	Unused			undercharged b2, so correct in june																												
57	Unused																															
58	Unused			60 kaf b2 cut.																												
59	Unused																															
60	Unused																															
61	Unused																															

	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																
2												Projects				
3				Storage												
4		Negative values for borrowed water														
5		SLR:C	SLR:S	MWD	Vidler	Sum	Chang	Shasta	Folsom	Oroville	New	SWP S	SWP	CVP	CVP	
6						Export	Export	Storage			Melone	500cfs	Gain	JPOD	JPOD	
7						Storage						50%	25%	50%	Not split	
8	Initial															
9	valu	247	-60	-200	100	87	0		0	0	4					
10	O	247	-60	-200	100	87	0				0	0	0	0		
11	N	247	-3	-200	100	144	57					0	0	0		
12	D	247	5	-200	100	152	8					0	2,667	0		
13	J	247	8	-200	100	155	3					0	1,667	0		
14																
15												0	4	0		
16																
17	F	279	73	-200	100	252	97					0	0	0		
18	M	272	-110	-200	100	62	-190					0	0	0		
19	A	234	-251	-200	100	-117	-179					0	0	0		
20	M	229	-266	-200	80	-157	-40					0	0	0		
21	J	259	-246	-200	60	-127	30					0	0	0		
22	J	243	-234	-200	40	-151	-24			32		0	0	0		
23	A	273	-214	-200	20	-121	30			32		0	0	0		
24	S	303	-144	-200	0	-41	80			32		0	0	0		
25												0	0	0		
26																
27																
28																
29																
30																
31																
32																
33																
34																
35																
36																
37																
38																
39																
40																
41																
42																
43																
44																
45																
46																
47																
48																
49																
50																
51																
52																
53																
54																
55																
56																
57																
58																
59																
60																
61																

	AB	AC	AD	AE	AF	AG	AH	AI	AJ
29		EWA Accounting				EWA	SWP	CVP	
30		Upstream Releases				0			
31		Water Backed upstream				0			
32		Total Export Cuts made				495			
33		Export Supplies Generated				367			
34		E/I				154			
35		500 cfs				0			
36		JPOD: Excess flows				0			
37		JPOD: EWA storage				0			
38		Transfer NOD Purchases				50			
39		Net Spill				0			
40		SOD Purchase				150			
41		SWP Gain				13			
42									
43		NOD Water Purchases				50			
44		EWA EOY Balance in CVP SLR				303			
45		EWA EOY Balance in SWP SLR				-144			
46		EWA EOY Balance in MWD				-200			
47		Vidler				0			
48		EWA in Shasta				0			
49		EWA in Folsom				0			
50		EWA in Oroville				32			
51									
52		Use of Excess Banks Capacity for excess flows							
53		Net new pumping allowed				0			
54		If no debt or EWA storage				0			
55		If no EWA or b(2).				0			
56		Unused							
57		Unused							
58		Unused							
59		Unused							
60		Unused							
61		Unused							

	AK	AL	AM	AN	AO
29	DWRSIM/ Daily Model				
30				SWP	CVP
31					
32					
33	SIM continuous Exports				
34	SIM yearly exports				
35	Daily Base Exports				
36	Daily Final Exports				
37	Change in Exports				
38	Final DWRSIM Exports				
39	CVP Delivery Cuts				
40					
41					
42	F	0			
43	M	0			
44	A	0			
45	M	0			
46	J	180			
47	J	0			
48	A	0			
49	S	0			
50					
51		180			
52					
53					
54					
55					
56					
57					
58					
59					
60					
61					

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	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	CALFED GAME 6B															
2	Year	1990										CVP Accounting				
3																
4		Upstream Balance												Export Balance		
5		Increased			Total	AFRP	AFRP	Cum	Offst	Increas	WQCP	Total	Net	Discret	Increa	WQCF
6		Releases			AFRP	Backed	Reset	Offset	Allowe	WQCP	Reset	WQCP	Upstre	Cuts	Pumping	
7		Shasta	Folsom	New		Water	Offset	Potential			(negative		Balance		(negative	
8				Melones							Offset					
9											Negative					
10	O		45	5	50						(38)	(38)	12		(13)	(67)
11	N				0						(76)	(76)	(76)			67
12	D		60		60					27		27	87			
13	J	75	60	3	138							0	138	123		
14	EWA Gain Reduction					Max R	0									
15		75	165	8	248	0	0			27	(114)	(87)	161	123	(13)	0
16																
17	F				0			0	0	108		108	108			-68
18	M			3	3			0	0	3		3	6	77		19
19	A		30		30		(120)	(120)	(120)		(43)	(43)	(133)	95		110
20	M		30		30			0	0		(112)	(112)	(82)	42		196
21	J		30		30		(120)	(120)	(120)	165		165	75	34		6
22	J	120			120		(240)	(240)	(240)	13		13	(107)			4
23	A		60		60			0	0		(20)	(20)	40			(38)
24	S				0		163	163	163			0	163			(18)
25	Feb	120	150	3	273	0	(317)	(317)	(317)	289	(175)	114	70	248	0	211
26																
27	Tota	195	315	11	521	0	(317)	(317)	(317)	316	(289)	27	231	371	(13)	211
28																

	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
1																
2	EWA								EWA Accounting							
3	Upstream					Export			Export Supply Factors							
4	Upstream Balance					Cuts										
5	Increas	Reduced		CVP	SWP	Total	E/I	500 cfs	JPOD	JPOD	Spill	NOD	SOD	SWP E	Sum	Sum
6	Releas	Releases		EWA	EWA	Cuts			split	Not spl	Debt	XFER	XFER	Exports	Export	factors
7		(negative		Export	Export						(Storage)				Factors	&Cuts
8				Cuts	Cuts											
9																
10			O			0	19							18	37	37
11			N			0									0	0
12			D			0								27	27	27
13	30		J		49	49								11	11	38
14																
15	30	0		0	49	49	19	0	0	0	0	0	0	56	75	26
16																
17	30		F			0									0	0
18			M			0									0	0
19			A		(26)	-26									0	26
20			M		(30)	-30							30	3	33	63
21			J	38	29	67							30		30	-37
22			J	92	55	147							30		30	-117
23			A			0						60	30	31	121	121
24			S			0							30		30	30
25	30	0		130	28	158	0	0	0	0	0	60	150	34	244	86
26																
27	60	0		130	77	207	19	0	0	0	0	60	150	90	319	112
28																

	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																
2												Projects				
3				Storage												
4		Negative values for borrowed water														
5		SLR:C	SLR:S	MWD	Vidler	Sum	Chang	Shasta	Folsom	Orovill	New	SWP S	SWP	CVP	CVP	
6						Export	Export	Storage			Melone	500cfs	Gain	JPOD	JPOD	
7						Storage						50%	25%	50%	Not split	
8	Initial															
9	valu	303	-144	-200	0	-41	0		0	60						
10	O	303	-107	-200	0	-4	37			60		0	6	0		
11	N	303	-107	-200	0	-4	0			60		0	0	0		
12	D	303	-80	-200	0	23	27			60		0	9	0		
13	J	303	-118	-200	0	-15	-38			30		0	3.667	0		
14																
15												0	19	0		
16																
17	F	303	-118	-200	0	-15	0			0		0	0	0		
18	M	303	-118	-200	0	-15	0					0	0	0		
19	A	303	-92	-200	0	11	26					0	0	0		
20	M	333	-59	-200	0	74	63					0	1	0		
21	J	325	-88	-200	0	37	-37					0	0	0		
22	J	262	-143	-200	0	-81	-118					0	0	0		
23	A	322	-82	-200	0	40	121					0	10.33	0		
24	S	352	-82	-200	0	70	30					0	0	0		
25												0	11	0		
26																
27																
28																

	A	O	Q	AA	AG	AH	AI	AK	AL	AN	AO
29	B(2) Accounting			EWA Accounting	EWA	SWP	CVP	DWRSIM/ Daily Model			
30			for game 6b, same as 6a, but	Upstream Releases	60					SWP	CVP
31	Net WQCP Storage: Oct - January	(87)	different initial storages, plus	Water Backed upstream	0						
32	Net WQCP Flow Changes: February - September	114	must charge for 30 kaf to swp	Total Export Cuts made	207						
33	WQCP Exports	211	in feb.	Export Supplies Generated	319			SIM continuous Exports			
34	Total Net WQCP	238	note that nod xfer is split between projects	E/I	19			SIM yearly exports			
35	Net AFRP storage: Oct - January	248		500 cfs	0			Daily Base Exports			
36	Net AFRP flow changes: February - September	273	**in corrected game, adjusted b2**	JPOD: Excess flows	0			Daily Final Exports			
37	Net Discretionary export b(2) except Section III	358	due to offset less than original calculation	JPOD: EWA storage	0			Change in Exports			
38	Upstream Release Reductions (Oct - Jan)	(114)	this gives ewa more assets at end of year.	Transfer NOD Purchases	60			Final DWRSIM Exports			
39	Upstream Release Reductions (Feb - Sep)	(175)		Net Spill	0			CVP Delivery Cuts			
40	Net Upstream Storage Change (AFRP + WQCP)	161		SOD Purchase	150						
41	Net Upstream Release: February - September	387		SWP Gain	90						
42	Net Export Change, not including S III.	569						F	0		
43	Section 3 water released	0		NOD Water Purchases	60			M	0		
44	Section 3 water exported	0		EWA EOY Balance in CVP SLR	352			A	133		
45	Section 3 Export cuts	0		EWA EOY Balance in SWP SLR	-82			M	82		
46	Gross Upstream fish actions	222		EWA EOY Balance in MWD	-200			J	0		
47	Gross Export fish actions	582		Vidler	0			J	4		
48	Gross Fish Actions	1157		EWA in Shasta	0			A			
49	Net Feb - Sep Export reduction	459		EWA in Folsom	0			S	0		
50	Total b(2) Spent	800		EWA in Oroville	0						
51	Export cuts beyond WQCP	371							219		
52	Unused			Use of Excess Banks Capacity for excess flows							
53	Unused			Net new pumping allowed	0				56 in credits		
54	Unused			If no debt or EWA storage	0						
55	Unused			If no EWA or b(2).	0						
56	Unused			Unused							
57	Unused			Unused							
58	Unused			Unused							
59	Unused			Unused							
60	Unused			Unused							
61	Unused			Unused							

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CALFED GAME 6

	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
2	Year	1991										CVP Accounting				
3																
4		Upstream Balance												Export Balance		
5		Increased			Total	AFRP	AFRP	Cum	Offst	Increas	WQCP	Total	Net	Discret	Increa	WQCP
6		Releases			AFRP	Backed	Reset	Offset	Allowe	WQCP	Reset	WQCP	Upstre	Cuts	Pumping	
7		Shasta	Folsom	New		Water	Offset	Potential			(negative		Balance		(negative	
8				Melones							Offset					
9											Negative					
10	O			5	5							0	5		(4)	(14)
11	N	12			12					20		20	32		(12)	(23)
12	D	15			15							0	15		(15)	(7)
13	J	15	18		33						(154)	(154)	(121)		(17)	(121)
14	EWA Gain Reduction					Max R	0									
15		42	18	5	65	0	0			20	(154)	(134)	(69)	0	(48)	(165)
16																
17	F		24		24		(60)	0	0	145		145	109	5		184
18	M		45	5	50			0	0			0	50	56		
19	A		48		48			0	0			0	48	9		156
20	M		48		48	(6)		0	0			0	42		(10)	64
21	J				0			0	0	16		16	16			106
22	J				0			0	0	11		11	11			9
23	A		45		45			0	0		(50)	(50)	(5)		(12)	(1)
24	S			6	6	(30)		0	0	29		29	5			(55)
25	Feb	0	210	11	221	(36)	(60)	0	0	201	(50)	151	276	70	(22)	463
26																
27	Tota	42	228	16	286	(36)	(60)	0	0	221	(204)	17	207	70	(70)	298

	U	V	W	X	Y	Z
2	EWA					
3						
4	Upstream Balance					Export Cuts
5	Increas	Reduced		CVP	SWP	Total
6	Releas	Releases		EWA	EWA	Cuts
7		(negative		Export	Export	
8				Cuts	Cuts	
9						
10			O			0
11			N			0
12			D			0
13			J			0
14						
15	0	0		0	0	0
16						
17			F		5	5
18			M		148	148
19			A	107	173	280
20			M	4	4	8
21			J			0
22			J			0
23			A			0
24			S			0
25	0	0		111	330	441
26						
27	0	0		111	330	441

	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
2			EWA Accounting							
3										
4			Export Supply Factors							
5	E/I	500 cfs	JPOD	JPOD	Spill	NOD	SOD	SWP E	Sum	Sum
6			split	Not sp	Debt	XFER	XFER	Exports	Export	factors
7					(Storage)				Factors	&Cuts
10									0	0
11	23								23	23
12	44								44	44
13								8	8	8
14										
15	67	0	0	0	0	0	0	8	75	75
16										
17									0	-5
18									0	148
19									0	280
20								5	5	-3
21									0	0
22						50			50	50
23						50		12	62	62
24									0	0
25	0	0	0	0	0	100	0	17	117	(324)
27	67	0	0	0	0	100	0	25	192	(249)

	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
2												Projects				
3																
4				Storage												
5		Negative values for borrowed water														
6		SLR:C	SLR:S	MWD	Vidler	Sum	Chang	Shasta	Folsom	Oroville	New	SWP S	SWP	CVP	CVP	
7						Export	Export	Storage			Melone	500cfs	Gain	JPOD	JPOD	
8						Storage						50%	25%	50%	Not split	
9	Initial															
10	valu	352	-82	-200	0	70	0		0	0						
11	O	352	-82	-200	0	70	0					0	0	0		
12	N	352	-59	-200		93	23					0	0	0		
13	D	352	-15	-200		137	44					0	0	0		
14	J	352	-7	-200		145	8					0	2.667	0		
15												0	3	0		
16																
17	F	352	-12	-200		140	-5					0	0	0		
18	M	352	-160	-200		-8	-148					0	0	0		
19	A	245	-333	-200		-288	-280					0	0	0		
20	M	241	-332	-200		-291	-3					0	1.667	0		
21	J	241	-382	-150		-291	0					0	0	0		
22	J	266	-407	-100		-241	50					0	0	0		
23	A	291	-420	-50		-179	62					0	4	0		
24	S	291	-470	0		-179	0					0	0	0		
25												0	6	0		

600 kaf year for b2

cvp already cut to 5%, so no more, even though b2 exists.

buy 100

state closes athe year negataive.

probablyu the result of accumulated errors allowing the baseline to delivery too much water during the drought.

lowpoint of 150 kaf. For this year probbaly ok. But if needed higher, then should have purchased 150 kaf more.

Do a corarection for next year. Set swp at 0 for 1992.

game 6B. Assumed same as 6A, but with 30 kaf more cuts in march.

limit b2 cuts to credits.

now into a tier 3 situation. But could have assumed that 150 kaf of water purchased. Then would have been ok.

29	B(2) Accounting	
30		
31	Net WQCP Storage: Oct - January	(134)
32	Net WQCP Flow Changes: February - September	151
33	WQCP Exports	298
34	Total Net WQCP	315
35	Net AFRP storage: Oct - January	65
36	Net AFRP flow changes: February - September	185
37	Net Discretionary export b(2) except Section III	0
38	Upstream Release Reductions (Oct - Jan)	(154)
39	Upstream Release Reductions (Feb - Sep)	(86)
40	Net Upstream Storage Change (AFRP + WQCP)	(69)
41	Net Upstream Release: February - September	336
42	Net Export Change, not including S III.	298
43	Section 3 water released	0
44	Section 3 water exported	0
45	Section 3 Export cuts	0
46	Gross Upstream fish actions	59
47	Gross Export fish actions	368
48	Gross Fish Actions	688
49	Net Feb - Sep Export reduction	511
50	Total b(2) Spent	505
51	Export cuts beyond WQCP	70
52	Unused	
53	Unused	
54	Unused	
55	Unused	
56	Unused	
57	Unused	
58	Unused	
59	Unused	
60	Unused	
61	Unused	

EWA Accounting	EWA	SWP	CVP
Upstream Releases	0		
Water Backed upstream	0		
Total Export Cuts made	441		
Export Supplies Generated	192		
E/I	67		
500 cfs	0		
JPOD: Excess flows	0		
JPOD: EWA storage	0		
Transfer NOD Purchases	100		
Net Spill	0		
SOD Purchase	0		
SWP Gain	25		
NOD Water Purchases	100		
EWA EOY Balance in CVP SLR	291		
EWA EOY Balance in SWP SLR	-470		
EWA EOY Balance in MWD	0		
Vidler	0		
EWA in Shasta	0		
EWA in Folsom	0		
EWA in Oroville	0		
Use of Excess Banks Capacity for excess flows			
Net new pumping allowed	0		
If no debt or EWA storage	0		
If no EWA or b(2).	0		
Unused			
Unused			
Unused			
Unused			
Unused			
Unused			

DWRSIM/ Daily Model	SWP	CVP
SIM continuous Exports		
SIM yearly exports		
Daily Base Exports		
Daily Final Exports		
Change in Exports		
Final DWRSIM Exports		
CVP Delivery Cuts		
F	0	
M	0	
A	0	
M	0	
J	0	
J	0	
A	-1	
S	0	
	-1	

D — 0 5 5 7 8 3

D-055783

	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	CALFED GAME 6															
2	Year	1992										CVP Accounting				
3																
4		Upstream Balance												Export Balance		
5		Increased			Total	AFRP	AFRP	Cum	Offst	Increas	WQCP	Total	Net	Discret	Increas	WQCP
6		Releases			AFRP	Backed	Reset	Offset	Allowe	WQCP	Reset	WQCP	Upstre	Cuts	Pumping	
7		Shasta	Folsom	New		Water	Offset	Potential			(negative		Balance		(negative	
8				Melones							Offset					
9											Negative					
10	O		30	5	35							0	35		(37)	(14)
11	N		30		30					32		32	62		(14)	(30)
12	D		30		30					12		12	42		(11)	(19)
13	J		45		45						(2)	(2)	43	81	(8)	(226)
14	EWA Gain Reduction					Max Re	0									
15		0	135	5	140	0	0			44	(2)	42	182	81	(70)	(289)
16																
17	F				0			0	0	2		2	2	109		1
18	M			3	3			0	0			0	3	195		83
19	A		24		24			0	0	20		20	44	16		202
20	M		24		24		(60)	(60)	(60)		(157)	(157)	(193)	24		244
21	J	30			30		(300)	(300)	(300)	239		239	(31)	182		(76)
22	J	30	60		90			0	0		(3)	(3)	87		(140)	6
23	A		60		60			0	0			0	60		(60)	(43)
24	S				0			0	0	14		14	14			(32)
25	Feb	60	168	3	231	0	(360)	(360)	(360)	275	(160)	115	(14)	526	(200)	385
26																
27	Tota	60	303	8	371	0	(360)	(360)	(360)	319	(162)	157	168	607	(270)	96
28																
29	B(2) Accounting															
30																600 kaf year for b2
31	Net WQCP Storage: Oct - January													42		
32	Net WQCP Flow Changes: February - September													115		general note. Problem with modeling
33	WQCP Exports													96		coa continues to make state federal splits
34	Total Net WQCP													253		problematic. This could skew results.
35	Net AFRP storage: Oct - January													140		ikn general swp should come out ahead, though
36	Net AFRP flow changes: February - September													231		as long as this is true, then maybe ok.
37	Net Discretionary export b(2) except Section III													337		
38	Upstream Release Reductions (Oct - Jan)													(2)		largeoffset. Recovery in wqcp
39	Upstream Release Reductions (Feb - Sep)													(160)		plus extra pumping july and august.
40	Net Upstream Storage Change (AFRP + WQCP)													182		all recovered by end of year.
41	Net Upstream Release: February - September													346		
42	Net Export Change, not including S III.													433		again, a modellikng mismatch problem
43	Section 3 water released													0		swp ends negative, because their baseline
44	Section 3 water exported													0		delivered too much water.
45	Section 3 Export cuts													0		
46	Gross Upstream fish actions													217		extra charge of 45 kaf in feb from 8.5
47	Gross Export fish actions													703		
48	Gross Fish Actions													1388		
49	Net Feb - Sep Export reduction													711		
50	Total b(2) Spent													601		
51	Export cuts beyond WQCP													607		
52	Unused															
53	Unused															
54	Unused															
55	Unused															
56	Unused															
57	Unused															
58	Unused															
59	Unused															
60	Unused															
61	Unused															

	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
2	EWA								EWA Accounting							
3	Upstream					Export			Export Supply Factors							
4	Upstream Balance					Cuts										
5	Increas	Reduced		CVP	SWP	Total	E/I	500 cfs	JPOD	JPOD	Spill	NOD	SOD	SWP E	Sum	Sum
6	Releas	Releases		EWA	EWA	Cuts			split	Not spl	Debt	XFER	XFER	Exports	Export	factors
7		(negative		Export	Export						(Storage)				Factors	&Cuts
8				Cuts	Cuts											
10			O			0								18	18	18
11			N			0								7	7	7
12			D			0								5	5	5
13			J		-50	-50								9	9	59
15	0	0		0	(50)	(50)	0	0	0	0	0	0	0	39	39	89
17			F		87	87									0	-87
18			M		(23)	-23									0	23
19			A		16	16									0	-16
20			M		17	17							30		30	13
21			J		41	41							30		30	-11
22			J			0						50	30		80	80
23			A			0							30		30	30
24			S			0							30		30	30
25	0	0		0	138	138	0	0	0	0	0	50	150	0	200	62
27	0	0		0	88	88	0	0	0	0	0	50	150	39	239	151
29							EWA Accounting						EWA	SWP	CVP	
30							Upstream Releases						0			
31							Water Backed upstream						0			
32							Total Export Cuts made						88			
33							Export Supplies Generated						239			
34								E/I					0			
35								500 cfs					0			
36								JPOD: Excess flows					0			
37								JPOD: EWA storage					0			
38								Transfer NOD Purchases					50			
39								Net Spill					0			
40								SOD Purchase					150			
41								SWP Gain					39			
43								NOD Water Purchases					50			
44								EWA EOY Balance in CVP SLR					491			
45								EWA EOY Balance in SWP SLR					-519			
46								EWA EOY Balance in MWD					0			
47								Vidler					0			
48								EWA in Shasta					0			
49								EWA in Folsom					0			
50								EWA in Oroville					0			
52							Use of Excess Banks Capacity for excess flows									
53								Net new pumping allowed					0			
54								If no debt or EWA storage					0			
55								If no EWA or b(2).					0			
56							Unused									
57							Unused									
58							Unused									
59							Unused									
60							Unused									
61							Unused									

	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
2												Projects				
3				Storage												
4		Negative values for borrowed water														
5		SLR:C	SLR:S	MWD	Vidler	Sum	Chang	Shasta	Folsom	Oroville	New	SWP S	SWP	CVP	CVP	
6						Export	Export	Storage			Melone	500cfs	Gain	JPOD	JPOD	
7						Storage						50%	.25%	50%	Not split	
8	Initial															
9	valu	291	-470	0	0	-179	0		0	0						
10	O	291	-452	0	0	-161	18					0	6	0		
11	N	291	-445	0	0	-154	7					0	2.333	0		
12	D	291	-440	0	0	-149	5					0	1.667	0		
13	J	291	-381	0	0	-90	59					0	3	0		
15												0	13	0		
17	F	291	-468	0	0	-177	-87					0	0	0		
18	M	291	-445	0	0	-154	23					0	0	0		
19	A	291	-461	0	0	-170	-16					0	0	0		
20	M	321	-478	0	0	-157	13					0	0	0		
21	J	351	-519	0	0	-168	-11					0	0	0		
22	J	431	-519	0	0	-88	80					0	0	0		
23	A	461	-519	0	0	-58	30					0	0	0		
24	S	491	-519	0	0	-28	30					0	0	0		
25												0	0	0		
29	DWRSIM/ Daily Model															
30				SWP	CVP											
33	SIM continuous Exports															
34	SIM yearly exports															
35	Daily Base Exports															
36	Daily Final Exports															
37	Change in Exports															
38	Final DWRSIM Exports															
39	CVP Delivery Cuts															
42	F	0														
43	M	0														
44	A	0														
45	M	193														
46	J	31														
47	J	0														
48	A	0														
49	S	0														
51		224														
53		more than enough recovered.														

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Row	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	CALFED GAME 6B															
2	Year	1993										CVP Accounting				
3																
4		Upstream Balance												Export Balance		
5		Increased			Total	AFRP	AFRP	Cum	Offst	Increas	WQCP	Total	Net	Discret	Increa	WQCF
6		Releases			AFRP	Backed	Reset	Offset	Allowe	WQCF	Reset	WQCF	Upstre	Cuts	Pumping	
7		Shasta	Folsom	New		Water	Offset	Potential			(negative		Balance		(negative	
8				Melones							Offset					
9											Negative					
10	O		5	4	9						(6)	(6)	3		(7)	(8)
11	N		5		5						(11)	(11)	(7)		(4)	8
12	D		12		12							0	12			
13	J	15		3	18		(21)					0	(3)	212		
14	EWA Gain Reduction					Max Rc	(21)									
15		15	21	7	43	0	(21)			0	(17)	(17)	5	212	(11)	0
16																
17	F	30			30			0	0			0	30	191		1
18	M			6	6		(30)	(30)	(30)	16		16	(8)			0
19	A			15	15			0	0			0	15	183		3
20	M			15	15			0	0			0	15	136		
21	J				0			0	0			0	0			
22	J				0			0	0	14		14	14			
23	A			15	15			0	0			0	15			
24	S				0			0	0			0	0			
25	Feb	30	0	51	81	0	(30)	(30)	(30)	30	0	30	81	510	0	4
26																
27	Tota	45	21	58	124	0	(51)	(30)	(30)	30	(17)	13	86	722	(11)	4
28																
29	B(2) Accounting															
30																
31	Net WQCP Storage: Oct - January													(17)	add water into base 300 fromswp	
32	Net WQCP Flow Changes: February - September													30	180 from swp.	
33	WQCP Exports													4	increase swp deliveries by 200 kaf.	
34	Total Net WQCP													17		
35	Net AFRP storage: Oct - January													43	reset of 18, but feb releases expends this	
36	Net AFRP flow changes: February - September													81	from shasta.	
37	Net Discretionary export b(2) except Section III													711		
38	Upstream Release Reductions (Oct - Jan)													(17)	no credit for 500 cfs.	
39	Upstream Release Reductions (Feb - Sep)													0		
40	Net Upstream Storage Change (AFRP + WQCP)													26	50 march	
41	Net Upstream Release: February - September													111		
42	Net Export Change, not including S III.													715	cut cvp by 400	
43	Section 3 water released													0		
44	Section 3 water exported													0	Way into tier 3.	
45	Section 3 Export cuts													0		
46	Gross Upstream fish actions													58	8.5 really hurt this year.	
47	Gross Export fish actions													726		
48	Gross Fish Actions													876	100 kaf into tier 3.	
49	Net Feb - Sep Export reduction													514		
50	Total b(2) Spent													801	source shift by cvp of 100 kaf.	
51	Export cuts beyond WQCP													722		
52	Unused														chanagae fromj 6a in that debt is to swp	
53	Unused														not cvp. Thus, swp fills and produces jpod.	
54	Unused			**corrected version. Incorporated 132 2/1 cost**											and sheds debt.	
55	Unused			Since were in better shape in beginning, debt situation lessw												
56	Unused			of a problem											132 for cvp 2/1 cost was not credited	
57	Unused														in first pass -- needs to be incorporated.	
58	Unused														Needed 200 kaf to meet collateral reqs.	
59	Unused															
60	Unused															
61	Unused															

Row	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
2	EWA								EWA Accounting							
3	Upstream					Export			Export Supply Factors							
4	Upstream Balance					Cuts										
5	Increas	Reduced		CVP	SWP	Total	E/I	500 cfs	JPOD	JPOD	Spill	NOD	SOD	SWP E	Sum	Sum
6	Releas	Releases		EWA	EWA	Cuts			split	Not spl	Debt	XFER	XFER	Exports	Export	factors
7		(negative		Export	Export						(Storage)				Factors	&Cuts
8				Cuts	Cuts											
10			O			0	25								25	25
11			N			0	23								23	23
12			D		55	55	77								77	22
13			J		146	146			52						52	94
15	0	0		0	201	201	125	0	52	0	0	0	0	0	177	(24)
17			F		133	133			158						158	25
18			M		17	17	50		73						123	106
19			A	-132	25	-107									0	107
20			M	100	85	185							40		40	145
21			J	99	108	207							40		40	167
22			J			0							40		40	40
23			A			0						50	40		90	90
24			S			0	42						40		82	82
25	0	0		67	368	435	92	0	231	0	0	50	200	0	573	138
27	0	0		67	569	636	217	0	283	0	0	50	200	0	750	114
29							EWA Accounting						EWA	SWP	CVP	
30							Upstream Releases						0			
31							Water Backed upstream						0			
32							Total Export Cuts made						636			
33							Export Supplies Generated						750			
34								E/I					217			
35								500 cfs					0			
36								JPOD: Excess flows					283			
37								JPOD: EWA storage					0			
38								Transfer NOD Purchases					50			
39								Net Spill					0			
40								SOD Purchase					200			
41								SWP Gain					0			
43								NOD Water Purchases					50			
44								EWA EOY Balance in CVP SLR					353			
45								EWA EOY Balance in SWP SLR					-267			
46								EWA EOY Balance in MWD					0			
47								Vidler					0			
48								EWA in Shasta					0			
49								EWA in Folsom					0			
50								EWA in Oroville					0			
52							Use of Excess Banks Capacity for excess flows									
53								Net new pumping allowed					0			
54								If no debt or EWA storage					0			
55								If no EWA or b(2).					0			
56							Unused									
57							Unused									
58							Unused									
59							Unused									
60							Unused									
61							Unused									

Row	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
2												Projects				
3				Storage												
4		Negative values for borrowed water														
5		SLR:C	SLR:S	MWD	Vidler	Sum	Chang	Shasta	Folsom	Orovill	New	SWP S	SWP	CVP	CVP	
6						Export	Export	Storage			Melone	500cfs	Gain	JPOD	JPOD	
7						Storage						50%	25%	50%	Not split	
8	Initial															
9	valu	491	-519			-28	0	32	81	0	39					
10	O	499	-502		0	-3	25	32	81		39	0	0	0		
11	N	503	-483			20	23	32	81		39	0	0	0		
12	D	503	-461			42	22	32	81		39	0	0	0		
13	J	451	-504			-53	-95	32	81		39	0	0	52		
15												0	0	52		
17	F	293	-320			-27	26	32	81		39	0	0	158		
18	M	220	-141			79	106	32	81		39	0	0	73		
19	A	352	-166			186	107	32	81		39	0	0	0		
20	M	292	-251			41	-145	0	0		0	0	0	0		
21	J	233	-359			-126	-167	0	0		0	0	0	0		
22	J	273	-359			-86	40	0	0		0	0	0	0		
23	A	313	-309			4	90	0	0		0	0	0	0		
24	S	353	-267			86	82	0	0		0	0	0	0		
25												0	0	231		
29	DWRSIM/ Daily Model															
30				SWP	CVP											
33	SIM continuous Exports															
34	SIM yearly exports															
35	Daily Base Exports															
36	Daily Final Exports															
37	Change in Exports															
38	Final DWRSIM Exports															
39	CVP Delivery Cuts															
40	a problem for refuges															
42	F	0														
43	M	0														
44	A	0														
45	M	0														
46	J	0														
47	J	0														
48	A	0														
49	S	0														
51		0														

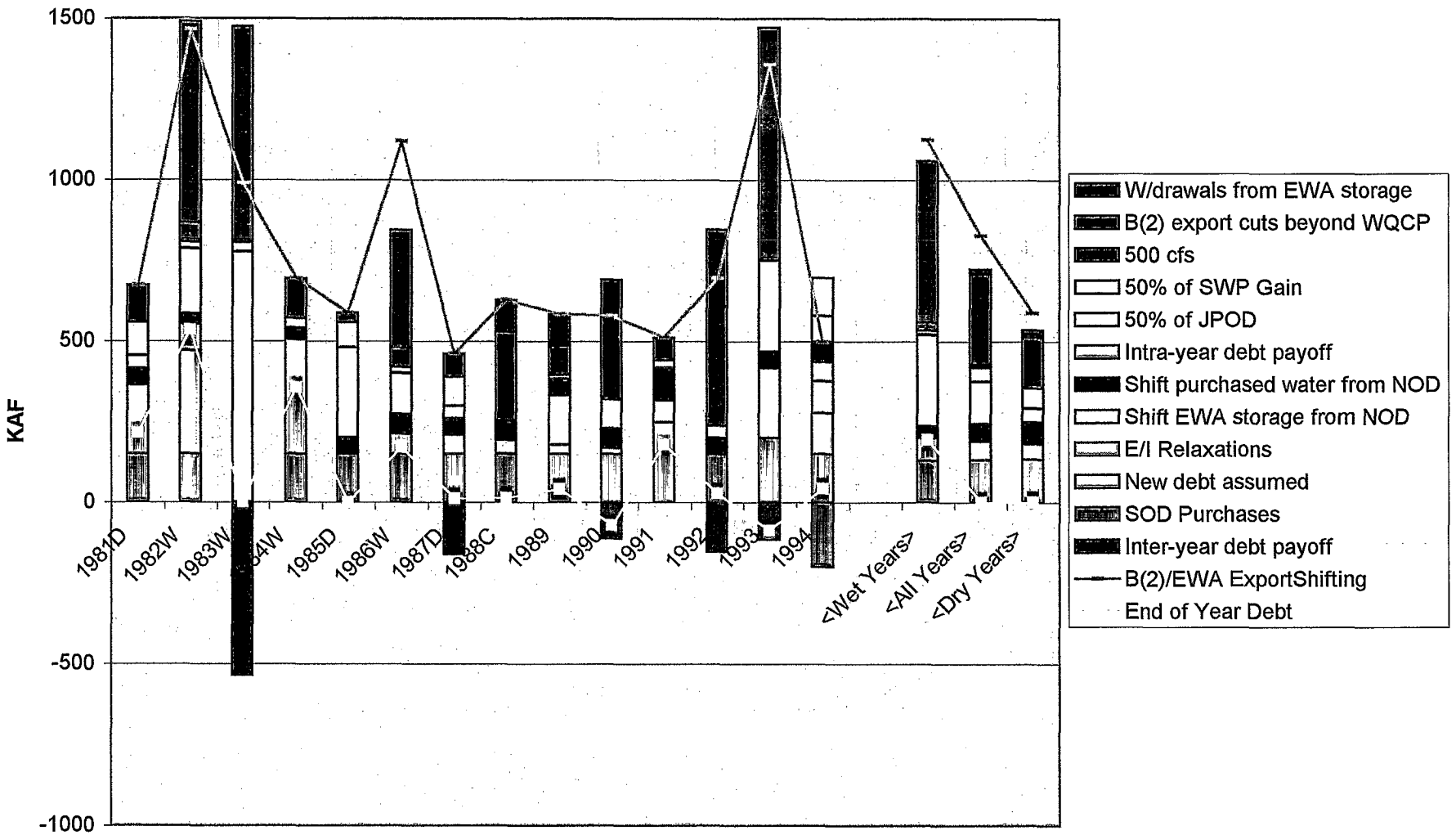
Row	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	CALFED GAME 5															
2	Year	1994										CVP Accounting				
3																
4		Upstream Balance												Export Balance		
5		Increased			Total	AFRP	AFRP	Cum	Offst	Increas	WQCP	Total	Net	Discret	Increase	WQCP
6		Releases			AFRP	Backed	Reset	Offset	Allowe	WQCP	Reset	WQCP	Upstre	Cuts	Pumping	
7		Shasta	Folsom	New		Water	Offset	Potential			(negative		Balance		(negative	
8				Melones							Offset					
9											Negative					
10	O		30	3	33					20		20	53			
11	N			(1)	(1)		(30)					0	(31)		(28)	
12	D	102	60	(1)	161							0	161		(25)	
13	J	105	67	(1)	171						(145)	(145)	26			
14	EWA Gain Reduction					Max R(	(30)									
15		207	157	0	364	0	(30)			20	(145)	(125)	209		(53)	0
16																
17	F	105	30	(2)	133			0	0	8		8	141			1
18	M		30	3	33		(72)	(72)	(72)	184		184	145			2
19	A		30		30		(21)	(21)	(21)		(44)	(44)	(35)			161
20	M		15		15			0	0		(168)	(168)	(153)			185
21	J		15		15			0	0		(92)	(92)	(77)			133
22	J		15		15			0	0	2		2	17	(200)		
23	A		15		15			0	0		(45)	(45)	(30)			
24	S		6		6		145	145	145		(1)	(1)	150			4
25	Feb	105	156	1	262	0	52	52	52	194	(350)	(156)	158	(200)	0	486
26																
27	Tota	312	313	1	626	0	22	52	52	214	(495)	(281)	367	(200)	(53)	486
28																

Row	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
1																
2	EWA								EWA Accounting							
3	Upstream					Export			Export Supply Factors							
4	Upstream Balance					Cuts										
5	Increas	Reduced		CVP	SWP	Total	E/I	500 cfs	JPOD	JPOD	Spill	NOD	SOD	SWP E	Sum	Sum
6	Releas	Releases		EWA	EWA	Cuts			split	Not spl	Debt	XFER	XFER	Exports	Export	factors
7		(negative		Export	Export						(Storage)				Factors	&Cuts
8				Cuts	Cuts											
9																
10			O	86	-48	38	36								36	-2
11			N	(61)	20	-41									0	41
12			D		15	15	20							25	45	30
13			J			0	38							85	123	123
14																
15	0	0		25	(13)	12	94	0	0	0	0	0	0	110	204	192
16																
17			F	114	51	165			50						50	-115
18			M	24	39	63			32						32	-31
19			A	66	66	132									0	-132
20			M	28	28	56							30		30	-26
21			J			0							30		30	30
22			J	150		150	5						30	8	43	-107
23			A			0				30		60	30		120	120
24			S		120	120				30			30		60	-60
25	0	0		382	304	686	5	0	82	60	0	60	150	8	365	(321)
26																
27	0	0		407	291	698	99	0	82	60	0	60	150	118	569	(129)
28																

Row	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
1																
2												Projects				
3				Storage												
4		Negative values for borrowed water														
5		SLR:C	SLR:S	MWD	Vidler	Sum	Chang	Shasta	Folsom	Oroville	New	SWP S	SWP	CVP	CVP	
6						Export	Export	Storage			Melone	500cfs	Gain	JPOD	JPOD	
7						Storage						50%	25%	50%	Not split	
8	Initial															
9	valu	353	-267			86	0	0	0	0	0					
10	O	267	-183			84	-2					0	0	0		
11	N	328	-203			125	41					0	0	0		
12	D	328	-173			155	30					0	8.333	0		
13	J	328	-50			278	123					0	28.33	0		
14																
15												0	37	0		
16																
17	F	164	0			164	-114					0	0	50		
18	M	140	-7			133	-31					0	0	32		
19	A	74	-73			1	-132					0	0	0		
20	M	76	-101			-25	-26	0	0	60		0	0	0		
21	J	106	-101			5	30	0		60		0	0	0		
22	J	-14	-88			-102	-107	0		60		0	2.667	0		
23	A	16	2			18	120	0		30		0	0	0		
24	S	46	-88			-42	-60	0		0		0	0	0		
25												0	3	82		
26																
27																
28																

Row	A	E	O	Q	AA	AB	AG	AH	AI	AK	AL	AN	AO
29	B(2) Accounting				EWA Accounting		EWA	SWP	CVP	DWRSIM/ Daily Model			
30					Upstream Releases		0					SWP	CVP
31	Net WQCP Storage: Oct - January		(125)	cut swp in base to bring up swp carryover.	Water Backed upstream		0						
32	Net WQCP Flow Changes: February - September		(156)		Total Export Cuts made		698						
33	WQCP Exports		486	if don't recover 305 of offset water from	Export Supplies Generated		569			SIM continuous Exports			
34	Total Net WQCP		205	wqcp, then will go over cap.		E/I	99			SIM yearly exports			
35	Net AFRP storage: Oct - January		364	e,g, 486 -281 + 265 + 9		500 cfs	0			Daily Base Exports			
36	Net AFRP flow changes: February - September		262	so 30 over cap.		JPOD: Excess flows	82			Daily Final Exports			
37	Net Discretionary export b(2) except Section III		(253)			JPOD: EWA storage	60			Change in Exports			
38	Upstream Release Reductions (Oct - Jan)		(145)	50 kaf 2/1 this year.		Transfer NOD Purchases	60			Final DWRSIM Exports			
39	Upstream Release Reductions (Feb - Sep)		(350)			Net Spill	0			CVP Delivery Cuts			
40	Net Upstream Storage Change (AFRP + WQCP)		239	132 kaf from 2/1 last year -- not put into		SOD Purchase	150						
41	Net Upstream Release: February - September		106	calculations		SWP Gain	118						
42	Net Export Change, not including S III.		233							F	0		
43	Section 3 water released		0	shoot for 830		NOD Water Purchases	60			M	0		
44	Section 3 water exported		0			EWA EOY Balance in CVP SLR	46			A	35		
45	Section 3 Export cuts		0	fix september baseline		EWA EOY Balance in SWP SLR	-88			M	153		
46	Gross Upstream fish actions		312			EWA EOY Balance in MWD	0			J	77		
47	Gross Export fish actions		286			Vidler	0			J	0		
48	Gross Fish Actions		631			EWA in Shasta	0			A	0		
49	Net Feb - Sep Export reduction		286			EWA in Folsom	0			S	0		
50	Total b(2) Spent		600			EWA in Oroville	0						
51	Export cuts beyond WQCP		(200)								265		
52	Unused				Use of Excess Banks Capacity for excess flows								
53	Unused	**corrected version. Recovered 120 kaf in september**				Net new pumping allowed	0						
54	Unused	count this toward offset. Leaves 145 kaf unrecovered.				If no debt or EWA storage	0						
55	Unused					If no EWA or b(2).	0						
56	Unused	Shoot for 600 kaf.			Unused								
57	Unused	Do this in July. Originally was 800, so must shift 200 kaf of impacts.			Unused								
58	Unused	Include 50 for 2/1 ratio.			Unused								
59	Unused				Unused								
60	Unused				Unused								
61	Unused				Unused								

Operations in Support of B(2)/ EWA Export Shifts
Game 6B



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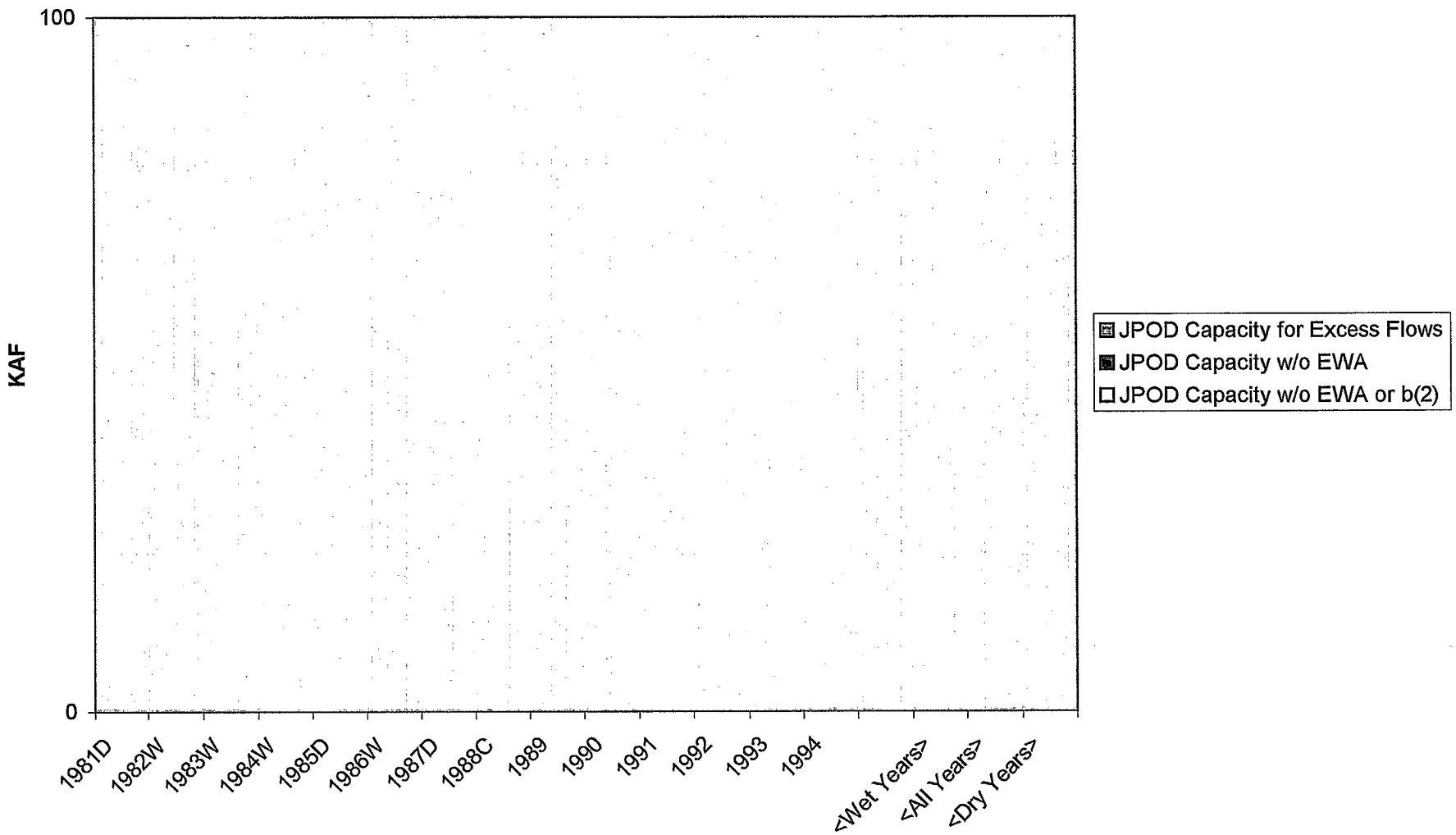
Total Excess Export Capacity for Excess Flows
CALFED Game 4



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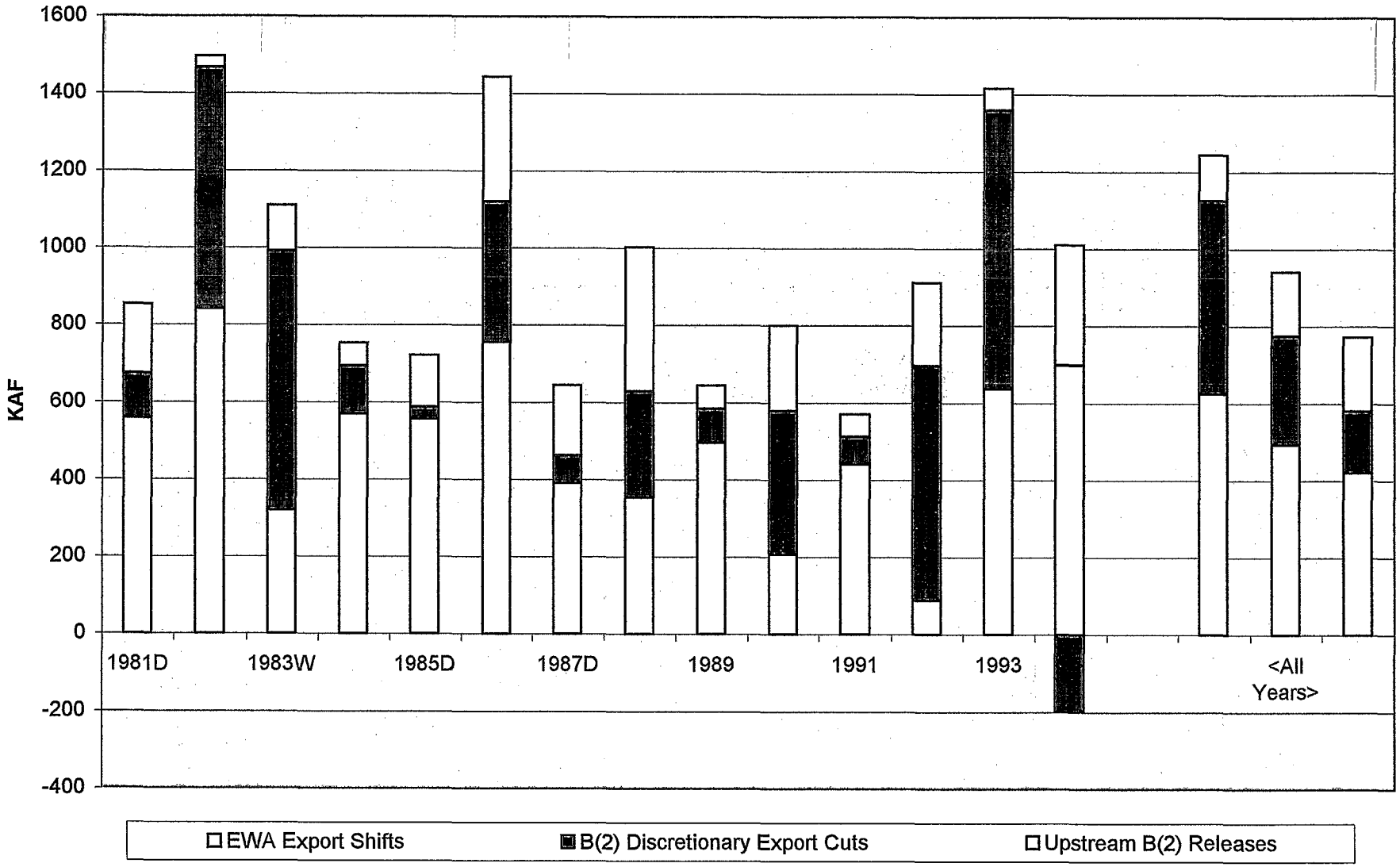
Operational Shifting for Fish: Game 6B



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Analysis
Game 6A

	1981D	1982W	1983W	1984W	1985D	1986W	1987D	1988C	1989	1990	1991	1992	1993	1994	<Wet Y	<All Ye	<Dry Years>
B(2) Accounting																	
Net WQCP Storage: Oct - January	11	0	0	0	42	11	-130	88	-13	-87	-134	42	-17	-125	-1	-22	-34
Net WQCP Flow Changes: February - Sept	-162	0	0	60	-174	59	205	286	-5	114	151	115	30	-156	30	37	42
WQCP Exports	381	101	11	330	418	164	388	205	500	211	298	96	4	486	122	257	331
Total Net WQCP	230	101	11	390	286	234	463	579	482	238	315	253	17	205	151	272	339
Net AFRP storage: Oct - January	284	74	120	0	205	77	300	12	75	248	65	140	43	364	63	143	188
Net AFRP flow changes: February - Septer	170	30	0	240	310	105	72	29	23	273	185	231	81	262	91	144	173
Net Discretionary export b(2) except Sectio	116	625	669	124	30	364	70	274	53	358	0	337	711	-253	499	248	109
Upstream Release Reductions (Oct - Jan)	-9	-20	0	0	-60	0	-177	-2	-13	-114	-154	-2	-17	-145	-7	-51	-75
Upstream Release Reductions (Feb - Sep)	-166	0	0	-77	-296	-11	-142	-322	-248	-175	-86	-160	0	-350	-18	-145	-216
Net Upstream Storage Change (AFRP + W	295	74	120	0	247	88	170	100	62	161	-69	182	26	239	62	121	154
Net Upstream Release: February - Septem	8	30	0	300	136	164	277	315	18	387	336	346	111	106	121	181	214
Net Export Change, not including S III.	497	726	680	454	448	528	458	479	553	569	298	433	715	233	621	505	441
Section 3 water released	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Section 3 water exported	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Section 3 Export cuts	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Gross Upstream fish actions	180	30	120	60	135	325	183	374	60	222	59	217	58	312	119	167	194
Gross Export fish actions	497	726	680	454	448	528	458	479	589	582	368	703	726	286	623	537	490
Gross Fish Actions	720	830	800	814	831	1105	980	1268	669	1157	688	1388	876	631	885	911	926
Net Feb - Sep Export reduction	497	514	304	454	418	302	417	285	727	459	511	711	514	286	418	457	479
Total b(2) Spent	800	778	800	800	801	800	809	929	730	800	505	601	801	600	796	754	731
Export cuts beyond WQCP	116	625	669	124	30	364	70	274	89	371	70	607	722	-200	501	281	159
Unused	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unused	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unused	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unused	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unused	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unused	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unused	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unused	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unused	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	1981D	1982W	1983W	1984W	1985D	1986W	1987D	1988C	1989	1990	1991	1992	1993	1994			
EWA Accounting																	
Upstream Releases	0	0	0	0	0	0	0	0	0	60	0	0	0	0	0	4	7
Water Backed upstream	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total Export Cuts made	557	841	320	569	556	755	391	354	495	207	441	88	636	698	624	493	421
Export Supplies Generated for EWA	343	546	858	215	835	672	549	253	367	319	192	239	750	569	608	479	407
E/I	0	82	0	0	0	62	60	43	154	19	67	0	217	99	72	57	49
500 cfs	0	60	0	0	0	60	0	0	0	0	0	0	0	0	24	9	0
JPOD: Excess flows	40	203	776	30	280	128	0	0	0	0	0	0	283	82	284	130	45
JPOD: Transfer NOD storag	0	0	0	0	0	0	0	0	0	0	0	0	0	60	0	4	7
Transfer NOD Purchases	50	30	0	35	50	60	50	60	50	60	100	50	50	60	35	50	59
Net Spill	0	0	52	0	278	192	197	0	0	0	0	0	0	0	49	51	53
SOD Purchase	150	150	0	150	150	150	150	150	150	150	0	150	200	150	130	132	133
SWP Gain	103	21	30	0	77	20	92	0	13	90	25	39	0	118	14	45	62
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NOD Water Purchases	50	30	0	35	50	60	50	60	50	60	100	50	50	60	35	50	59
EWA EOY Balance in CVP S	31	24	0	-24 u		-214	83	247	303	352	291	491	353	46	28	153	#####
EWA EOY Balance in SWP	-245	-559	0	-331	-55	43	-95	-60	-144	-82	-470	-519	-267	-88	-223	-205	-195
EWA EOY Balance in MWD	0	0	0	0	0	0	0	-200	-200	-200	0	0	0	0	0	-43	-67
Vidler	200	200	200	200	200	200	200	100	0	0	0	0	0	0	160	107	78
EWA in Shasta	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EWA in Folsom	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
EWA in Oroville	0	0	0	0	0	0	0	0	32	0	0	0	0	0	0	2	4
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Use of Excess Banks Capacity for excess f	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Net new pumping allowed	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
If no debt or EWA storage	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
If no EWA or b(2).	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unused	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unused	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unused	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unused	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unused	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unused	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Unused	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
500 cfs	30	90	90	80	60	70	50	0	45	0	0	0	75	60	81	59	35
Total b(2) and EWA discretionary	673	1466	989	693	586	1119	461	628	584	578	511	695	1358	498	1125	827	587
Net debt SOD	214	535	0	355	#####	171	12	13	41	-70	179	28	-86	42	195	#####	#####
Net Change in Debt	214	321	-535	355	#####	#####	-159	1	28	-111	249	-151	-114	128	#####	#####	#####
New debt Assumed	214	321	0	355	#####	#####	0	1	28	0	249	0	0	128	#####	#####	#####
Inter-year debt payoff	0	0	-535	0	#####	#####	-159	0	0	-111	0	-151	-114	0	#####	#####	#####
Intra-year debt payoff	0	0	0	0	#####	#####	38	0	0	0	0	0	0	0	#####	#####	#####
W/drawals from EWA storag	0	0	0	0	0	0	0	100	100	0	0	0	0	0	0	14	22