	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 5																															
2	Year	1981										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			6	6						(47)	(47)	(41)			67			O			0									0	0
11	N		66	6	72						(21)	(21)	51	30		12			N			0								30	30	30
12	D	30	66	6	102					43		43	145			0			D			0								84	84	84
13	J	30	30	6	66							0	66			0			J	0	97	97								47	47	50
14	EWA Gain Reduction				0	Max Re	0																									
15		60	162	24	246	0	0			43	(68)	(25)	221	30	0	79	0	0		0	97	97	0	0	0	0	0	0	0	161	161	64
16																																
17	F				0			0	0			0	0	100		4			F	89	45	134									0	134
18	M				0			0	0			0	0	25		(38)			M	35	52	87									0	-87
19	A		45		45			0	0	0		0	45			145			A	22	28	50									0	-50
20	M		45		45			0	0	0		0	45			131			M	25	23	48							30		30	-18
21	J				0			0	0	33		33	33			81			J			0							30		30	30
22	J				0			0	0		(148)	(148)	(148)			(64)			J	-60	60	0							30		30	30
23	A				0			0	0	63		63	63			43			A	-60	60	0							30		30	30
24	S				0			0	0			0	0			5			S	-60	60	0						30	30		60	60
25	Feb	0	90	0	90	0	0	0	0	96	(148)	(52)	38	125	0	307	0	0		(9)	328	319	0	0	0	0	0	30	150	0	180	(139)
26																																
27	Tota	60	252	24	336	0	0	0	0	139	(216)	(77)	259	155	0	386	0	0		(9)	425	416	0	0	0	0	0	30	150	161	341	(75)
28																																
29	B(2) Accounting																															
30																																
31	Net WQCP Storage: Oct - January													(25)																		
32	Net WQCP Flow Changes: February - September													(52)																		
33	WQCP Exports													386																		
34	Total Net WQCP													309																		
35	Net AFRP storage: Oct - January													246		restart notes																
36	Net AFRP flow changes: February - September													90		1981																
37	Net Discretionary export b(2) except Section III													155		Collateral problem is not as bad this time																
38	Upstream Release Reductions (Oct - Jan)													(68)		max debt was 225 in May, but w/ demand																
39	Upstream Release Reductions (Feb - Sep)													(148)		shift and upstream purchase and sod purchase																
40	Net Upstream Storage Change (AFRP + WQCP)													221		, seems we could handle this.																
41	Net Upstream Release: February - September													38																		
42	Net Export Change, not including S III.													541		thus, no magic water needed.																
43	Section 3 water released													0																		
44	Section 3 water exported													0																		
45	Section 3 Export cuts													0																		
46	Gross Upstream fish actions													60																		
47	Gross Export fish actions													541																		
48	Gross Fish Actions													800																		
49	Net Feb - Sep Export reduction													432																		
50	Total b(2) Spent													800																		
51	Export cuts beyond WQCP													155																		
52	Unused																															
53	Unused																															
54	Unused																															
55	Unused																															
56	Unused																															
57	Unused																															
58	Unused																															
59	Unused																															
60	Unused																															
61	Unused																															
62																																
63																																
64																																
65																		1981 Notes														
66																		Apirl/May WQCP upstream releases zerod out, since flows from spills.														
67																		Somewhatoverextended april/may since purchase + source shift no longer adequate to cover														
68																		with source shift, close to gettting to next year, but now dangerously overextended. Bu then again,														
69																		in dry fall, should get major state gains.														
70																		account for lower carryover. Can't compare to other games, or planning calsim runs.														

	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		SWP S	SWP	CVP	CVP	
6						Export	Export	Storage				500cfs	Gain	JPOD	JPOD	
7						Storage						50%	25%	50%	Not split	
8	Initial															
9	valu	0	0	0	0	0	0	0	0	0						
10	O					0	0					0	0	0		
11	N		30			30	30					0	10	0		
12	D		114			114	84					0	28	0		
13	J		64		0	64	-50					0	16	67		
14																
15												0	54	0		
16																
17	F	-89	19		0	-70	-134					0	0	0		
18	M	-124	-33		0	-157	-87					0	0	0		
19	A	-146	-61			-207	-50					0	0	0		
20	M	-171	-54			-225	-18					0	0	0		
21	J	-171	-24			-195	30					0	0	0		
22	J	-111	-54			-165	30					0	0	0		
23	A	-51	-84			-135	30					0	0	0		
24	S	9	-54			-45	90					0	0	0		
25												0	0	0		
26																
27																
28																
29																
30																
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68																
69																
70																

EWA Accounting	EWA	SWP	CVP
Upstream Releases	0		
Water Backed upstream	0		
Total Export Cuts made	416		
Export Supplies Generated	341		
E/I	0		
500 cfs	0		
JPOD: Excess flows	0		
JPOD: EWA storage	0		
Transfer NOD Purchases	30		
Net Spill	0		
SOD Purchase	150		
SWP Gain	161		
NOD Water Purchases	30		
EWA EOY Balance in CVP SLR	9		
EWA EOY Balance in SWP SLR	-54		
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			
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		

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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 5																															
2	Year	1982										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		45	10	55					20		20	75			0			O			0								35	35	35
11	N			10	10						(20)	(20)	(10)			0			N			0									0	0
12	D			10	10		(45)					0	(35)	74		0			D		31	31									0	31
13	J			10	10							0	10	124		0			J	80	-80	0									0	0
14	EWA Gain Reduction				35	Max Re	(45)																									
15		0	45	40	120	0	(45)			20	(20)	0	75	198	0	0	0	0		80	(49)	31	0	0	0	0	0	0	0	35	35	4
16																																
17	F				0			0	0			0	0	102		1			F	-30	127	97			34						34	-63
18	M				0			0	0			0	0	300		37			M			0									0	0
19	A				0			0	0			0	0	30		29			A	70	110	180			17						17	63
20	M				0			0	0			0	0			32			M	170	203	373							90		90	283
21	J				0			0	0			0	0			0			J			0							90		90	90
22	J				0			0	0			0	0			0			J			0							90		90	90
23	A				0			0	0			0	0			0			A			0							90		90	90
24	S				0			0	0			0	0			2			S			0							90		90	90
25	Feb	0	0	0	0	0	0	0	0	0	0	0	0	432	0	101	0	0		210	440	650	0	0	51	0	0	0	450	0	501	(149)
26																																
27	Tota	0	45	40	120	0	(45)	0	0	20	(20)	0	75	630	0	101	0	0		290	391	681	0	0	51	0	0	0	450	35	536	(145)
28																																
29	B(2) Accounting																						EWA Accounting						EWA	SWP	CVP	
30																old game							Upstream Releases						0			
31	Net WQCP Storage: Oct - January													0			need to fix total export cut column						Water Backed upstream						0			
32	Net WQCP Flow Changes: February - September													0			This game violates collateral						Total Export Cuts made						681			
33	WQCP Exports													101			would need 150 kaf to meet.						Export Supplies Generated						536			
34	Total Net WQCP													101										E/I					0			
35	Net AFRP storage: Oct - January													120		restart								500 cfs					0			
36	Net AFRP flow changes: February - September													0		shifted rule curved for restarst. Causes								JPOD: Excess flows					51			
37	Net Discretionary export b(2) except Section III													630		major shift in b(2) deductions for wqcp								JPOD: EWA storage					0			
38	Upstream Release Reductions (Oct - Jan)													(20)		downward. Shows sensitifivity of								Transfer NOD Purchases					0			
39	Upstream Release Reductions (Feb - Sep)													0		wqcp cost to rule curves!								Net Spill					0			
40	Net Upstream Storage Change (AFRP + WQCP)													120										SOD Purchase					450			
41	Net Upstream Release: February - September													0		we slightly violated the reset limitation								SWP Gain					35			
42	Net Export Change, not including S III.													731																		
43	Section 3 water released													0		purchased 150 kaf of extra tier 3 water.								NOD Water Purchases					0			
44	Section 3 water exported													0										EWA EOY Balance in CVP SLR					-56			
45	Section 3 Export cuts													0		used cvp source shift of 100 kaf to								EWA EOY Balance in SWP SLR					-103			
46	Gross Upstream fish actions													0		get extra cvp deliveries. Total cut								EWA EOY Balance in MWD					0			
47	Gross Export fish actions													731		is 150 kaf.								Vidler					0			
48	Gross Fish Actions													851										EWA in Shasta					0			
49	Net Feb - Sep Export reduction													533		error in b(2). This means we would need to								EWA in Folsom					0			
50	Total b(2) Spent													806		buy another 179 kaf to meet the criterion.								EWA in Oroville					0			
51	Export cuts beyond WQCP													630																		
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									
62																																
63																																
64																																
65																	1982 Notes															

	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	9	54	0	0	-45	0	0	0	0						
10	O	9	-19			-10	35					0	167	0		
11	N	9	-19			-10	0					0	0	0		
12	D	9	-19			-10	0					0	0	0		
13	J	-70	60		0	-10	0					0	0	0		
14																
15												0	12	0		
16																
17	F	-73	0		0	-73	-63					0	0	34		
18	M	-73	0		0	-73	0					0	0	0		
19	A	-126	-110			-236	-163					0	0	17		
20	M	-236	-283			-519	-283					0	0	0		
21	J	-176	-253			-429	90					0	0	0		
22	J	-116	-223			-339	90					0	0	0		
23	A	-86	-163			-249	90					0	0	0		
24	S	-56	-103			-159	90					0	0	0		
25												0	0	51		
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																
41																
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CALFED GAME 5

Year	Upstream Balance: Increased Releases Shasta	Folsom	New Melones	Total AFRP	AFRP Backed Water	AFRP Reset Offset	Cum Offset Potential	Offst Allowe	Increas WQCP	WQCP Reset Offset Negative	Total WQCP	Net Upstre Balance	Export Balance: Discret Cuts	Increas Pumping (negative	WQCP	EWA Upstream Balance: Increas Releas	Reduced Releases (negative	CVP EWA Export Cuts	SWP EWA Export Cuts	Export Cuts: Total Cuts	E/I	500 cfs	EWA Accounting Export Supply Factors: JPOD split	JPOD Not spl	Spill Debt (Storage)	NOD XFER	SOD XFER	SWP E Exports	Sum Export Factors	Sum factors &Cuts
1983											CVP Accounting					EWA							EWA Accounting							
O				0							0	0						O		0			37						37	37
N				0							0	0	73					N		0			27						27	27
D				0							0	0	191					D		0			85						85	85
J				0							0	0						J		0			75						75	75
EWA Gain Reduction					Max Re	0																								
	0	0	0	0	0	0			0	0	0	0	264	0	0	0	0		0	0	0	0	224	0	0	0	0	0	224	224
F				0			0	0			0	0			4			F		0			92		-72				20	20
M				0			0	0			0	0			(1)			M		0				20					20	20
A				0			0	0			0	0	96		(1)			A		0									0	0
M				0			0	0			0	0	203		(1)			M		0									0	0
J				0			0	0			0	0	215					J		0									0	0
J				0			0	0			0	0						J		0			90						90	90
A				0			0	0			0	0			0			A		0			90						90	90
S				0			0	0			0	0			0			S		0			80						80	80
Feb	0	0	0	0	0	0	0	0	0	0	0	0	514	0	1	0	0		0	0	0	0	352	20	(72)	0	0	0	300	300
Tota	0	0	0	0	0	0	0	0	0	0	0	0	778	0	1	0	0		0	0	0	0	576	20	(72)	0	0	0	524	524

Year	Initial value	SLR:C	SLR:S	MWD	Vidler	Sum Export Storage	Change Export	Shasta Storage	Folsom	Oroville	SWP S 500cfs 50%	SWP Gain 25%	CVP JPOD 50%	CVP JPOD Not split
				Storage										
		Negative values for borrowed water												
	-55	-108	0	0		-163	0	0	0	0				
O	-92	-33				-125	38				0	0	37	
N	-119	0		20		-99	26				0	0	27	
D	-55	0		40		-15	84				0	0	85	
J	0	0		60		60	75				0	0	75	
											0	0	224	
F	0	0		80		80	20				0	0	92	
M	0	0		100		100	20				0	0	0	
A	0	0		100		100	0				0	0	0	
M	0	0		100		100	0				0	0	0	
J	0	0		100		100	0				0	0	0	
J	70	0		120		190	90				0	0	90	
A	140	0		140		280	90				0	0	90	
S	200	0		160		360	80				0	0	80	
											0	0	352	

B(2) Accounting

Net WQCP Storage: Oct - January	0
Net WQCP Flow Changes: February - September	0
WQCP Exports	0
Total Net WQCP	0
Net AFRP storage: Oct - January	0
Net AFRP flow changes: February - September	0
Net Discretionary export b(2) except Section III	778
Upstream Release Reductions (Oct - Jan)	0
Upstream Release Reductions (Feb - Sep)	0
Net Upstream Storage Change (AFRP + WQCP)	0
Net Upstream Release: February - September	0
Net Export Change, not including S III.	779
Section 3 water released	0
Section 3 water exported	0
Section 3 Export cuts	0
Gross Upstream fish actions	0
Gross Export fish actions	779
Gross Fish Actions	779
Net Feb - Sep Export reduction	515
Total b(2) Spent	779
Export cuts beyond WQCP	778
Unused	
Unused	
Unused	
Unused	
Unused	
Unused	
Unused	
Unused	
Unused	
Unused	
Unused	

Between 1982/83 assume bought
130 kaf to pay off fed debt.
This provides minimum collateral.
Thus carryover is zero
Didn't use to increase CVP allocations
Assume 135 delivered
this reduces from 250

Need to review through feb. Accounting

Nov/dec b(2) cuts count both Lost JPOD
opporrtunities and cuts below the baseline.

For jpod benefits, remember to add in jpod
benefitrs from nov/dec that fell under export cuts
most of the b(2) cost in these months is from
cutting jpod. This is a cvp benefit

arestart. Since everyting fills, didn't regame
this year. Simply started with different debt
levels. Assumed that additional pumping
in march to pay off remaining debts -- begning
from a fish perspective. Then no change in
assets for 1984.

1982 Notes

EWA Accounting	EWA	SWP	CVP
Upstream Releases	0		
Water Backed upstream	0		
Total Export Cuts made	0		
Export Supplies Generated	524		
E/I	0		
500 cfs	0		
JPOD: Excess flows	576		
JPOD: EWA storage	20		
Transfer NOD Purchases	0		
Net Spill	(72)		
SOD Purchase	0		
SWP Gain	0		
NOD Water Purchases	0		
EWA EOY Balance in CVP SLR	200		
EWA EOY Balance in SWP SLR	0		
EWA EOY Balance in MWD	0		
Vidler	160		
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			
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		

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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 5																					
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	Discret	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				0			0	0			0	0			18			F			0
18	M		120		120			0	0			0	120	72		27			M			0
19	A		90		90			0	0	156		156	246	182		43			A		110	110
20	M				0			0	0		(22)	(22)	(22)			92			M	142	98	240
21	J				0			0	0	25		25	25			67			J		101	101
22	J				0			0	0		(25)	(25)	(25)			0	12		J			0
23	A				0			0	0		(62)	(62)	(62)			0	12		A			0
24	S				0			0	0		0	0	0			5	6		S			0
25	Feb	0	210	0	210	0	0	0	0	181	(109)	72	282	254	0	252	30	0		142	309	451
26																						
27	Tota	0	210	0	210	0	0	0	0	181	(109)	72	282	254	0	252	30	0		142	309	451
28																						
29	B(2) Accounting																					
30																						
31	Net WQCP Storage: Oct - January													0								
32	Net WQCP Flow Changes: February - September													72								
33	WQCP Exports													252								
34	Total Net WQCP													324								
35	Net AFRP storage: Oct - January													0								
36	Net AFRP flow changes: February - September													210								
37	Net Discretionary export b(2) except Section III													254								
38	Upstream Release Reductions (Oct - Jan)													0								
39	Upstream Release Reductions (Feb - Sep)													(109)								
40	Net Upstream Storage Change (AFRP + WQCP)													0								
41	Net Upstream Release: February - September													282								
42	Net Export Change, not including S III.													506								
43	Section 3 water released													0								
44	Section 3 water exported													0								
45	Section 3 Export cuts													0								
46	Gross Upstream fish actions													72								
47	Gross Export fish actions													506								
48	Gross Fish Actions													860								
49	Net Feb - Sep Export reduction													506								
50	Total b(2) Spent													788								
51	Export cuts beyond WQCP													254								
52	Unused																					
53	Unused																					
54	Unused																					
55	Unused																					
56	Unused																					
57	Unused																					
58	Unused																					
59	Unused																					
60	Unused																					
61	Unused																					
62																						
63																						
64																						
65																						
66																						

	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	0
11					-160				-160	-160
12									0	0
13									0	0
14										
15	0	0	0	0	(160)	0	0	0	(160)	(160)
16										
17									0	0
18									0	0
19									0	110
20							30		30	210
21							30		30	71
22							30		30	30
23							30		30	30
24							30		30	30
25	0	0	0	0	0	0	150	0	150	(301)
26										
27	0	0	0	0	(160)	0	150	0	(10)	(461)
28										
29	EWA Accounting						EWA	SWP	CVP	
30	Upstream Releases						30			
31	Water Backed upstream						0			
32	Total Export Cuts made						451			
33	Export Supplies Generated						(10)			
34		E/I					0			
35		500 cfs					0			
36		JPOD: Excess flows					0			
37		JPOD: EWA storage					0			
38		Transfer NOD Purchases					0			
39		Net Spill					(160)			
40		SOD Purchase					150			
41		SWP Gain					0			
42										
43		NOD Water Purchases					0			
44		EWA EOY Balance in CVP SLR					8			
45		EWA EOY Balance in SWP SLR					-309			
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									
62	Unused									
63										
64										
65										
66										

	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	200	0		160	360	0	0	0	0	Melones					
10	O	180			180	360	0					0	0	0		
11	N	0			200	200	-160					0	0	0		
12	D				200	200	0					0	0	0		
13	J				200	200	0					0	0	0		
14																
15												0	0	0		
16																
17	F				200	200	0					0	0	0		
18	M				200	200	0					0	0	0		
19	A		-110		200	90	-110					0	0	0		
20	M	-112	-208		200	-120	-210					0	0	0		
21	J	-82	-309		200	-191	-71					0	0	0		
22	J	-52	-309		200	-161	30					0	0	0		
23	A	-22	-309		200	-131	30					0	0	0		
24	S	8	-309		200	-101	30				20	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																
41																
42																
43																
44																
45																
46																
47																
48																
49																
50																
51																
52																
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56																
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58																
59																
60																
61																
62																
63																
64																
65																
66																

Wathc for offset problems this year
e.g., may, export cut and reduced release.
does the reduced release count?

2:1 ratio means that state cost is 45 kaf.
did this cut during the game in [ ]. This
keeps the accounting ok. Didn't show the cut
as a cost

why any wqcp cost this year. SLR is full!
Comes from difference in deliveies. But
why different deliveries?

Used upstream ewa purchase to enhance
stan flows.

holding 20 in New Melones for deliverfy
next year. Finishes the 50 of upstream.

redsart notes.
few changes. Just some shifts in the costs of
protection and wqcp flows.

In this year, projects moved water late in year
better would have been for EWA to move water,
or to give water to projects in return for water in
Oroville.

D—055737

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	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	CALFED GAME 5															
2	Year	1985										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			6	6					4		4	10			(16)
11	N			6	6					16		16	22	53		16
12	D			6	6					0		0	6	15		0
13	J	90	60	6	156						(42)	(42)	114	51		0
14	EWA Gain Reduction					Max Re	0									
15		90	60	24	174	0	0			20	(42)	(22)	152	119	0	0
16																
17	F	60		6	66			0	0	38		38	104	43		18
18	M	60	60		120			0	0		(12)	(12)	108	7		24
19	A	60			60			0	0		(43)	(43)	17	62		145
20	M		60	6	66		(120)	(120)	(120)		(155)	(155)	(209)			124
21	J		60		60			0	0		(64)	(64)	(4)			102
22	J		60		60			0	0	84		84	144	(235)		0
23	A		60		60			0	0		(24)	(24)	36			0
24	S				0			0	0		38	38	38			5
25	Feb	180	300	12	492	0	(120)	(120)	(120)	122	(260)	(138)	234	(123)	0	418
26																
27	Tota	270	360	36	666	0	(120)	(120)	(120)	142	(302)	(160)	386	(4)	0	418
28																

	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK
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												Initia
9																	valu
10			O			0								4	4	4	O
11			N			0									0	0	N
12			D			0			152						152	152	D
13			J			0			125		110			15	250	250	J
14																	
15	0	0		0	0	0	0	0	277	0	110	0	0	19	406	406	
16																	
17			F		67	67			3		40				43	-24	F
18			M			0								55	55	55	M
19			A	30	10	40									0	-40	A
20			M	59		59							30	16	46	-13	M
21			J	19		19							30	33	63	44	J
22			J	235		235							30	12	42	-193	J
23			A	-100	100	0							30	10	40	40	A
24			S	-100	100	0							30	12	42	42	S
25	0	0		143	277	420	0	0	3	0	40	0	150	138	331	(89)	
26																	
27	0	0		143	277	420	0	0	280	0	150	0	150	157	737	317	
28																	

	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															
9	8	-309		200	-101	0	0	0	0	20					
10	-51	-305		200	-156	-55				14	0	1.333	0		
11	-101	-305		200	-206	-50				8	0	0	0		
12	-250	0		200	-50	156				2	0	0	152		
13	0	0		200	200	250				0	0	5	125		
14															
15											0	6	277		
16															
17	0	-24		200	176	-24					0	0	3		
18		31		200	231	55					0	18.33	0		
19	-30	21		200	191	-40					0	0	0		
20	-59	37		200	178	-13					0	5.333	0		
21	-48	70		200	222	44					0	11	0		
22	-253	82		200	29	-193					0	4	0		
23	-122	-8		200	70	41					0	3.333	0		
24	8	-96		200	112	42					0	12	0		
25											0	54	3		
26															
27															
28															

	A	O	Q	AA	AG	AH	AI	AK	AN	AO
29	B(2) Accounting			EWA Accounting	EWA	SWP	CVP	DWRSIM/ Daily Model		
30			bo state contribution is 43 kaf.	Upstream Releases	0				SWP	CVP
31	Net WQCP Storage: Oct - January	(22)	took credit in april	Water Backed upstream	0					
32	Net WQCP Flow Changes: February - September	(138)		Total Export Cuts made	420					
33	WQCP Exports	418	128 offset	Export Supplies Generated	737			SIM continuous Exports		
34	Total Net WQCP	258	90 recovered	E/I	0			SIM yearly exports		
35	Net AFRP storage: Oct - January	174	38 unrecovered.	500 cfs	0			Daily Base Exports		
36	Net AFRP flow changes: February - September	492		JPOD: Excess flows	280			Daily Final Exports		
37	Net Discretionary export b(2) except Section III	(4)		JPOD: EWA storage	0			Change in Exports		
38	Upstream Release Reductions (Oct - Jan)	(42)		Transfer NOD Purchases	0			Final DWRSIM Exports		
39	Upstream Release Reductions (Feb - Sep)	(260)		Net Spill	150			CVP Delivery Cuts		
40	Net Upstream Storage Change (AFRP + WQCP)	152		SOD Purchase	150					
41	Net Upstream Release: February - September	354		SWP Gain	157					
42	Net Export Change, not including S III.	414								
43	Section 3 water released	0		NOD Water Purchases	0					
44	Section 3 water exported	0		EWA EOY Balance in CVP SLR	8					
45	Section 3 Export cuts	0		EWA EOY Balance in SWP SLR	-96					
46	Gross Upstream fish actions	270		EWA EOY Balance in MWD	0					
47	Gross Export fish actions	414		Vidler	200					
48	Gross Fish Actions	920		EWA in Shasta	0					
49	Net Feb - Sep Export reduction	295		EWA in Folsom	0					
50	Total b(2) Spent	800		EWA in Oroville	0					
51	Export cuts beyond WQCP	(4)								
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						
62				Unused						

D-055738

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	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	CALFED GAME 5															
2	Year	1986										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			7	7					7		7	4			13
11	N		60	3	63						(36)	(36)	27			27
12	D		60	3	63						(14)	(14)	49	110		0
13	J	75		5	80		(120)				(43)	(43)	(83)	168		0
14	EWA Gain Reduction				60	Max Re	(120)									
15		75	120	18	273	0	(120)			7	(93)	(86)	187	278	0	40
16																
17	F				0			0	0	0		0	0	40		(20)
18	M				0			0	0	0		0	0			23
19	A				0			0	0	0		0	0			31
20	M				0			0	0	0		0	0			36
21	J				0			0	0	0		0	0			50
22	J				0			0	0	70		70	70			0
23	A				0			0	0	0		0	0			0
24	S				0			0	0	0		0	0			5
25	Feb	0	0	0	0	0	0	0	0	70	0	70	70	40	0	125
26																
27	Tota	75	120	18	273	0	(120)	0	0	77	(93)	(16)	257	318	0	165
28																
29	B(2) Accounting															
30																
31	Net WQCP Storage: Oct - January													(86)		
32	Net WQCP Flow Changes: February - September													70		
33	WQCP Exports													165		
34	Total Net WQCP													149		
35	Net AFRP storage: Oct - January													273		
36	Net AFRP flow changes: February - September													0		
37	Net Discretionary export b(2) except Section III													318		
38	Upstream Release Reductions (Oct - Jan)													(93)		
39	Upstream Release Reductions (Feb - Sep)													0		
40	Net Upstream Storage Change (AFRP + WQCP)													187		
41	Net Upstream Release: February - September													70		
42	Net Export Change, not including S III.													483		
43	Section 3 water released													0		
44	Section 3 water exported													0		
45	Section 3 Export cuts													0		
46	Gross Upstream fish actions													75		
47	Gross Export fish actions													483		
48	Gross Fish Actions													740		
49	Net Feb - Sep Export reduction													165		
50	Total b(2) Spent													740		
51	Export cuts beyond WQCP													318		
52	Unused															
53	Unused															
54	Unused															
55	Unused															
56	Unused															
57	Unused															
58	Unused															
59	Unused															
60	Unused															
61	Unused															
62																

	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									0	0
11			N			0									0	0
12			D			0								60	60	60
13			J			0									0	0
14																
15	0	0		0	0	0	0	0	0	0	0	0	0	60	60	60
16																
17			F	235		235									0	-235
18			M			0									0	0
19			A	30	124	154			160						160	6
20			M	250		250							30		30	-220
21			J	67		67							30		30	-37
22			J			0							30		30	30
23			A			0							30		30	30
24			S	-100	100	0				46		24	30		100	100
25	0	0		482	224	706	0	0	160	46	0	24	150	0	380	(326)
26																
27	0	0		482	224	706	0	0	160	46	0	24	150	60	440	(266)
28																
29							EWA Accounting						EWA	SWP	CVP	
30							Upstream Releases						0			
31							Water Backed upstream						0			
32							Total Export Cuts made						706			
33							Export Supplies Generated						440			
34																
35																
36																
37																
38																
39																
40																
41																
42																
43																
44																
45																
46																
47																
48																
49																
50																
51																
52							Unused									
53							Unused									
54							Unused									
55							Unused									
56							Unused									
57							Unused									
58																
59																
60																
61																
62							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	8	-96		200	112	0			0	0					
10	O	8	-96		200	112	0					0	0	0		
11	N	8	-96		200	112	0					0	0	0		
12	D	8	-36		200	172	60					0	20	0		
13	J	8	-36		200	172	0					0	0	0		
14																
15												0	20	0		
16																
17	F	-227	-36		200	-63	-235					0	0	0		
18	M	-227	-36		200	-63	0					0	0	0		
19	A	-133	-124		200	-57	6					0	0	160		
20	M	-383	-94		200	-277	-220					0	0	0		
21	J	-450	-64		200	-314	-37	60				0	0	0		
22	J	-450	-34		200	-284	30	60				0	0	0		
23	A	-450	-4		200	-254	30	60				0	0	0		
24	S	-350	-4		200	-154	100	0				0	0	0		
25												0	0	160		
26																
27																
28																
29	DWRSIM/ Daily Model															
30				SWP	CVP											
31																
32																
33																
34	SIM continuous Exports															
35	SIM yearly exports															
36	Daily Base Exports															
37	Daily Final Exports															
38	Change in Exports															
39	Final DWRSIM Exports															
40	CVP Delivery Cuts															
41																
42																
43																
44																
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47																
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59																
60																
61																
62																

Big reset this year, reduces allowable b(2) compared to old accounting system by 120 kaf. Thus 680 kaf.

Ifcarry 120 kaf extra EWA debt from 1985, may need some magic water in June. However, look at CVP storage. If spilled debt because CVP SLR got near to filling, then would eliminate the extra debt and get us back on track. This would be simplest.

E/I	0
500 cfs	0
JPOD: Excess flows	160
JPOD: EWA storage	46
Transfer NOD Purchases	24
Net Spill	0
SOD Purchase	150
SWP Gain	60
NOD Water Purchases	24
EWA EOY Balance in CVP SLR	-350
EWA EOY Balance in SWP SLR	-4
EWA EOY Balance in MWD	0
Vidler	200
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

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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 5																															
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		75		75					10		10	85						O			0			40					38	78	78
11	N				0							0	0						N			0									0	0
12	D		75		75					21		21	96	24					D			0								40	40	40
13	J	60	75		135						(153)	(153)	(18)						J			0			116		92			24	232	232
14	EWA Gain Reduction					Max Re	110																									
15		60	225	0	285	0	0			31	(153)	(122)	163	24	0	0	0	0		0	0	0	0	0	156	0	92	0	0	102	350	350
16																																
17	F				0			0	0	43		43	43			0			F			0									0	0
18	M				0			0	0	4		4	4			41			M			0									0	0
19	A				0		(40)	(40)	(40)	139	*(139)*	0	(40)	80		138			A			0									0	0
20	M				0			0	0	0	(121)	(121)	(121)	18		173			M		(41)	-41							30		30	71
21	J				0		(120)	(120)	(120)	141		141	21	182		74			J			0							30		30	30
22	J				0			0	0	54		54	54			0			J			0							30		30	30
23	A				0			0	0	0	(21)	(21)	(21)			0			A			0							30		30	30
24	S				0			0	0	91		91	91			(119)			S			0							30		30	30
25	Feb	0	0	0	0	0	(160)	(160)	(160)	472	(281)	191	31	280	0	307	0	0		0	(41)	(41)	0	0	0	0	0	0	150	0	150	191
26																																
27	Tota	60	225	0	285	0	(160)	(160)	(160)	503	(434)	69	194	304	0	307	0	0		0	(41)	(41)	0	0	156	0	92	0	150	102	500	541
28																																
29	B(2) Accounting																															
30																																
31	Net WQCP Storage: Oct - January													(122)																		
32	Net WQCP Flow Changes: February - September													191		Possible problem in this year.																
33	WQCP Exports													307		160 of offsets																
34	Total Net WQCP													376																		
35	Net AFRP storage: Oct - January													285																		
36	Net AFRP flow changes: February - September													0		Makeup = 119+59 in October																
37	Net Discretionary export b(2) except Section III													304		Therefore, total makeup.																
38	Upstream Release Reductions (Oct - Jan)													(153)																		
39	Upstream Release Reductions (Feb - Sep)													(281)																		
40	Net Upstream Storage Change (AFRP + WQCP)													163																		
41	Net Upstream Release: February - September													191																		
42	Net Export Change, not including S III.													611																		
43	Section 3 water released													0																		
44	Section 3 water exported													0																		
45	Section 3 Export cuts													0																		
46	Gross Upstream fish actions													129																		
47	Gross Export fish actions													611																		
48	Gross Fish Actions													034																		
49	Net Feb - Sep Export reduction													587																		
50	Total b(2) Spent													805																		
51	Export cuts beyond WQCP													304																		
52	Unused																															
53	Unused																															
54	Unused																															
55	Unused																															
56	Unused																															
57	Unused																															
58	Unused																															
59	Unused																															
60	Unused																															
61	Unused																															
62																																

	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				500cfs	Gain	JPOD	JPOD	
7						Storage					Melone	50%	25%	50%	Not split	
8	Initial															
9	valu	-350	0		200	-150	0		0	0						
10	O	-272	0		200	-72	78					0	1267	40		
11	N	-272	0		200	-72	0					0	0	0		
12	D	-232	0		200	-32	40					0	1333	0		
13	J	0	0		200	200	232					0	8	116		
14																
15												0	34	156		
16																
17	F				200	200	0					0	0	0		
18	M				200	200	0					0	0	0		
19	A				200	200	0					0	0	0		
20	M		71		200	271	71					0	0	0		
21	J	0	101		200	301	30					0	0	0		
22	J	0	131		200	331	30					0	0	0		
23	A	0	161		200	361	30					0	0	0		
24	S	0	191		200	391	30	50				0	0	0		
25												0	0	0		
26																
27																
28																
29																
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62																

29	EWA Accounting	EWA	SWP CVP
30	Upstream Releases	0	
31	Water Backed upstream	0	
32	Total Export Cuts made	(41)	
33	Export Supplies Generated	500	
34	E/I	0	
35	500 cfs	0	
36	JPOD: Excess flows	156	
37	JPOD: EWA storage	0	
38	Transfer NOD Purchases	0	
39	Net Spill	92	
40	SOD Purchase	150	
41	SWP Gain	102	
42			
43	NOD Water Purchases	0	
44	EWA EOY Balance in CVP SLR	0	
45	EWA EOY Balance in SWP SLR	191	
46	EWA EOY Balance in MWD	0	
47	Vidler	200	
48	EWA in Shasta	50	
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		
62	Unused		

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			

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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 5																															
2	Year	1988										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 B	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					96		96	96			(76)			O			0									0	0
11	N				0					74		74	74			(84)			N			0									0	0
12	D				0							0	0	50					D	170		170	35								35	135
13	J				0						(2)	(2)	(2)						J	166		166									0	166
14	EWA Gain Reduction					Max Re	0																									
15		0	0	0	0	0	0			170	(2)	168	168	50	0	(160)	0	0		336	0	336	35	0	0	0	0	0	0	0	35	(301)
16																																
17	F				0			0	0	159		159	159			113			F	7		7									0	-7
18	M				0			0	0	84		84	84			92			M	20		20									0	-20
19	A				0			0	0		(315)	(315)	(315)			204			A	16		16									0	-16
20	M				0			0	0	10		10	10			107			M	8	(8)	0									0	0
21	J				0			0	0	216		216	216			(45)			J			0									0	0
22	J				0			0	0		(234)	(234)	(234)			258			J			0							50		50	50
23	A				0			0	0		(48)	(48)	(48)			(12)			A			0						50	50		100	100
24	S				0		300	300	300	65		65	365			(83)			S			0							50		50	50
25	Feb	0	0	0	0	0	300	300	300	534	(597)	(63)	237	0	0	634	0	0		51	(3)	43	0	0	0	0	0	50	150	0	200	157
26																																
27	Tota	0	0	0	0	0	300	300	300	704	(599)	105	405	50	0	474	0	0		387	(4)	379	35	0	0	0	0	50	150	0	235	(144)
28																																
29	B(2) Accounting																						EWA Accounting						EWA	SWP	CVP
30																							Upstream Releases						0		
31	Net WQCP Storage: Oct - January													168									Water Backed upstream						0		
32	Net WQCP Flow Changes: February - September													(63)		Offset is 438 kaf							Total Export Cuts made						379		
33	WQCP Exports													474		Recovery = 140 kaf							Export Supplies Generated						235		
34	Total Net WQCP													579		Unrecovered is 300 kaf.								E/I					35		
35	Net AFRP storage: Oct - January													0		However, also over cap by 130 kaf.								500 cfs					0		
36	Net AFRP flow changes: February - September													0		Therefore, may shoot for 930 kaf								JPOD: Excess flows					0		
37	Net Discretionary export b(2) except Section III													50										JPOD: EWA storage					0		
38	Upstream Release Reductions (Oct - Jan)													(2)										Transfer NOD Purchases					50		
39	Upstream Release Reductions (Feb - Sep)													(597)										Net Spill					0		
40	Net Upstream Storage Change (AFRP + WQCP)													168		offset did have a major effect, however. Without								SOD Purchase					150		
41	Net Upstream Release: February - September													(63)		offset, we would have been able to c								SWP Gain					0		
42	Net Export Change, not including S III.													524		cut another 230 or essentially all of the EWA															
43	Section 3 water released													0		costs for the year.								NOD Water Purchases					50		
44	Section 3 water exported													0										EWA EOY Balance in CVP SLR					-237		
45	Section 3 Export cuts													0		backed some water -- but only to e xtent								EWA EOY Balance in SWP SLR					284		
46	Gross Upstream fish actions													105		thast ewa made cuts in mar,apr,may.								EWA EOY Balance in MWD					0		
47	Gross Export fish actions													524										Vidler					200		
48	Gross Fish Actions													734		probably could have backed ewa water in july								EWA in Shasta					92		
49	Net Feb - Sep Export reduction													634		into shasta, then run into slr in fall to provide								EWA in Folsom					0		
50	Total b(2) Spent													929		benefits. Haven't done much of this kind of								EWA in Oroville					0		
51	Export cuts beyond WQCP													50		shifting so far. Wouldn't have hit total ewa															
52	Unused															exp;ort, but would have allowed for more							Use of Excess Banks Capacity for excess flows								
53	Unused															upstream releases.								Net new pumping allowed					0		
54	Unused																							If no debt or EWA storage					0		
55	Unused															8 kaf caredit for bo du;ring vamp								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								
62																							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	0	191		200	391	0	50	0	0						
10	O	0	191		200	391	0	50				0	0	0		
11	N	0	191		200	391	0	50				0	0	0		
12	D	-170	226		200	256	-135	50				0	0	0		
13	J	-336	226		200	90	-166	50				0	0	0		
14																
15												0	0	0		
16																
17	F	-343	226		200	83	-7	50				0	0	0		
18	M	-363	226		200	63	-20	70				0	0	0		
19	A	-379	226		200	47	-16	84				0	0	0		
20	M	-387	234		200	47	0	92				0	0	0		
21	J	-387	234		200	47	0	92				0	0	0		
22	J	-337	234		200	97	50	92				0	0	0		
23	A	-287	284		200	197	100	92				0	0	0		
24	S	-237	284		200	247	50	92				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																
41																
42																
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	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	CALFED GAME 5															
2	Year	1989										CVP Accounting				
3																
4		Upstream Balance												Export Balance		
5		Increased			Total	AFRP	AFRP	Cum	Offst	Increas	WQCP	Total	Net	Discret	Incre	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						(14)	(14)	(10)			0
11	N				0						(3)	(3)	(3)			0
12	D				0						0	0	0			(7)
13	J		15	3	18						(20)	(20)	(2)	81		(197)
14	EWA Gain Reduction					Max Re	0									
15		0	15	7	22	0	0			0	(37)	(37)	(15)	81	0	(204)
16																
17	F		20		20			0	0	62		62	82			212
18	M			3	3			0	0	0		0	3			0
19	A				0			0	0	0		0	0	50		108
20	M				0			0	0	79		79	79	24		223
21	J				0			0	0		(190)	(190)	(190)			122
22	J				0			0	0	99		99	99			0
23	A				0			0	0		(28)	(28)	(28)			0
24	S				0		27	27	27		0	0	27			3
25	Feb	0	20	3	23	0	27	27	27	240	(218)	22	72	74	0	668
26																
27	Tota	0	35	10	45	0	27	27	27	240	(255)	(15)	57	155	0	464
28																

	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									0	0
11	30		N			0	26								26	26
12	30		D			0				28					28	28
13			J			0									0	0
15	60	0		0	0	0	26	0	0	28	0	0	0	0	54	54
17			F			0								12	12	12
18			M	100		100									0	-100
19			A	100		100									0	-100
20			M		(15)	-15							30		30	45
21			J			0							30		30	30
22			J			0							30		30	30
23			A			0							30		30	30
24			S			0	24						30		54	54
25	0	0		200	(15)	185	24	0	0	0	0	0	150	12	186	1
27	60	0		200	(15)	185	50	0	0	28	0	0	150	12	240	55

	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	-237	284		200	247	0	92	0	0						
10	O	-237	284		200	247	0	92				0	0	0		
11	N	-237	310		200	273	26	62				0	0	0		
12	D	-237	338		200	301	28	32				0	0	0		
13	J	-237	338		200	301	0	32				0	0	0		
15												0	0	0		
17	F	-237	350		200	313	12	32				0	4	0		
18	M	-337	350		200	213	-100	32				0	0	0		
19	A	-437	350		200	113	-100	32				0	0	0		
20	M	-407	365		200	158	45	32				0	0	0		
21	J	-377	365		200	188	30	32			50	0	0	0		
22	J	-347	365		200	218	30	32			50	0	0	0		
23	A	-317	365		200	248	30	32			50	0	0	0		
24	S	-287	389		200	302	54	32			50	0	0	0		
25												0	4	0		

29	B(2) Accounting			EWA Accounting	EWA	SWP	CVP	DWRSIM/ Daily Model		
30				Upstream Releases	60				SWP	CVP
31	Net WQCP Storage: Oct - January	(37)	Offset in June 122 from WQCP	Water Backed upstream	0					
32	Net WQCP Flow Changes: February - September	22	but 95 extra moved in June by project.	Total Export Cuts made	185					
33	WQCP Exports	464	Therefore, only 27 unrecovered.	Export Supplies Generated	240			SIM continuous Exports		
34	Total Net WQCP	449	No matter, since couldn't spend all	E/I	50			SIM yearly exports		
35	Net AFRP storage: Oct - January	22	of b2 anyway.	500 cfs	0			Daily Base Exports		
36	Net AFRP flow changes: February - September	23		JPOD: Excess flows	0			Daily Final Exports		
37	Net Discretionary export b(2) except Section III	155	Note that wqcp export impact is over 640	JPOD: EWA storage	28			Change in Exports		
38	Upstream Release Reductions (Oct - Jan)	(37)	However, since moved an extra 95 of project	Transfer NOD Purchases	0			Final DWRSIM Exports		
39	Upstream Release Reductions (Feb - Sep)	(218)	water in June, impact arguably reduced	Net Spill	0			CVP Delivery Cuts		
40	Net Upstream Storage Change (AFRP + WQCP)	(15)	in export area (with increase upstream,).	SOD Purchase	150					
41	Net Upstream Release: February - September	45		SWP Gain	12					
42	Net Export Change, not including S III.	619	That is, we changed the baseline operations.							
43	Section 3 water released	0	If moved 95 upstream, then total f-sept	NOD Water Purchases	0					
44	Section 3 water exported	0	impact is 573. Then could spend 70 kaf more b2	EWA EOY Balance in CVP SLR	-287					
45	Section 3 Export cuts	0		EWA EOY Balance in SWP SLR	389					
46	Gross Upstream fish actions	0		EWA EOY Balance in MWD	0					
47	Gross Export fish actions	619	2:1 = 15 kaf	Vidler	200					
48	Gross Fish Actions	649		EWA in Shasta	32					
49	Net Feb - Sep Export reduction	742	delivery cut of 80	EWA in Folsom	0					
50	Total b(2) Spent	676		EWA in Oroville	0					
51	Export cuts beyond WQCP	155	source shift of 70							
52	Unused			Use of Excess Banks Capacity for excess flows						
53	Unused		gets us to 300 kaf low point	Net new pumping allowed	0					
54	Unused			If no debt or EWA storage	0					
55	Unused		a problem with daily vs my accounting	If no EWA or b(2).	0					
56	Unused		russ did not correctly enter state vs federal	Unused						
57	Unused		water. Therefore, curves do not correspond	Unused						
58	Unused		to actual storage in slr.	Unused						
59	Unused			Unused						
60	Unused			Unused						
61	Unused			Unused						
62				Unused						

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Row	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	CALFED GAME 5															
2	Year	1989										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	Allowed	WQCP	Reset	WQCP	Upstre	Cuts	Pumping	
7		Shasta	Folsom	New		Water	Offset	Potential			(negative		Balance		(negative	
8				Melones							Offset					
9											Negative					
10	O				0					20		20	20			
11	N	30			30						(137)	(137)	(107)			128
12	D				0					95		95	95			(68)
13	J		45		45						(8)	(8)	37			
14	EWA Gain Reduction					Max Re	0									
15		30	45	0	75	0	0			115	(145)	(30)	45	0	0	60
16																
17	F		45		45			0	0	123		123	168			
18	M		30		30			0	0			0	30			46
19	A		30		30			0	0		(122)	(122)	(92)			110
20	M		30		30			0	0		(102)	(102)	(72)			194
21	J		30		30			0	0	165		165	195			6
22	J				0			0	0	18		18	18			5
23	A		60		60			0	0		(24)	(24)	36			(37)
24	S		30		30		111	111	111			0	141	(37)		(16)
25	Feb	0	255	0	255	0	111	111	111	306	(248)	58	424	(37)	0	308
26																
27	Tota	30	300	0	330	0	111	111	111	421	(393)	28	469	(37)	0	368

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	5		O			0	7								7	7
11			N			0								7	7	7
12			D			0									0	0
13	3		J	64		64								5	5	-59
15	8	0		64	0	64	7	0	0	0	0	0	0	12	19	(45)
17			F			0								16	16	16
18			M	91		91									0	-91
19			A	57		57								12	12	-45
20	3		M	12		12							30	5	35	23
21			J			0							30		30	30
22			J			0							30		30	30
23			A			0							30		30	30
24			S	37		37							30		30	-7
25	3	0		197	0	197	0	0	0	0	0	0	150	33	183	(14)
27	11	0		261	0	261	7	0	0	0	0	0	150	45	202	(59)

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	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	102	0		200	302	0	32	0	0	50					
10	O	102	7		200	309	7	32			45	0	0	0		
11	N	102	14		200	316	7	32			45	0	2.333	0		
12	D	102	14		200	316	0	32			45	0	0	0		
13	J	38	19		200	257	-59	32			42	0	1.667	0		
15												0	4	0		
17	F	38	35		200	273	16	32			42	0	5.333	0		
18	M	-53	35		200	182	-91	32			42	0	0	0		
19	A	-110	47		200	137	-45	32			42	0	4	0		
20	M	-92	52		200	160	23	32			39	0	1.667	0		
21	J	-62	52		200	190	30	32			39	0	0	0		
22	J	-32	52		200	220	30	32			39	0	0	0		
23	A	-2	52		200	250	30	32			39	0	0	0		
24	S	-9	52		200	243	-7	32			39	0	0	0		
25												0	11	0		

Row	B(2) Accounting	Value	Notes	EWA Accounting	EWA	SWP	CVP	DWRSIM/ Daily Model	SWP	CVP
29	B(2) Accounting			EWA Accounting	EWA	SWP	CVP	DWRSIM/ Daily Model		
30				Upstream Releases	11				SWP	CVP
31	Net WQCP Storage: Oct - January	(30)	netted out storage from 1989	Water Backed upstream	0					
32	Net WQCP Flow Changes: February - September	58	and p;t surplus into federal side.	Total Export Cuts made	261					
33	WQCP Exports	368		Export Supplies Generated	202			SIM continuous Exports		
34	Total Net WQCP	396	unclear on whether daily model	E/I	7			SIM yearly exports		
35	Net AFRP storage: Oct - January	75	initial storages are correct.	500 cfs	0			Daily Base Exports		
36	Net AFRP flow changes: February - September	255		JPOD: Excess flows	0			Daily Final Exports		
37	Net Discretionary export b(2) except Section III	(37)	Offset = 164	JPOD: EWA storage	0			Change in Exports		
38	Upstream Release Reductions (Oct - Jan)	(145)	Makeup = 53	Transfer NOD Purchases	0			Final DWRSIM Exports		
39	Upstream Release Reductions (Feb - Sep)	(248)	Unrecovered makeup = 111	Net Spill	0			CVP Delivery Cuts		
40	Net Upstream Storage Change (AFRP + WQCP)	45		SOD Purchase	150					
41	Net Upstream Release: February - September	313		SWP Gain	45					
42	Net Export Change, not including S III.	331								
43	Section 3 water released	0		NOD Water Purchases	0					
44	Section 3 water exported	0		EWA EOY Balance in CVP SLR	-9					
45	Section 3 Export cuts	0		EWA EOY Balance in SWP SLR	52					
46	Gross Upstream fish actions	58		EWA EOY Balance in MWD	0					
47	Gross Export fish actions	331		Vidler	200					
48	Gross Fish Actions	717	Assume a 100 kaf source shift to maintain	EWA in Shasta	32					
49	Net Feb - Sep Export reduction	271	deliveries for cvp	EWA in Folsom	0					
50	Total b(2) Spent	800		EWA in Oroville	0					
51	Export cuts beyond WQCP	(37)	Note that EWA is supplying all of							
52	Unused		carryover storage/ low point storage	Use of Excess Banks Capacity for excess flows						
53	Unused			Net new pumping allowed	0					
54	Unused		b/o = ?	If no debt or EWA storage	0					
55	Unused			If no EWA or b(2).	0					
56	Unused		Note inability to spend entire 800 kaf.	Unused						
57	Unused			Unused						
58	Unused		state gain may be off. The water may haved	Unused						
59	Unused		been pumped by CVP, then becomes	Unused						
60	Unused		a b2 credit.	Unused						
61	Unused			Unused						
62				Unused						

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	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
1	CALFED GAME 5															
2	Year	1990										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				0					30		30	30	16		(44)
11	N	12			12						(24)	(24)	(12)		(15)	21
12	D	15			15							0	15		(14)	(7)
13	J	15			15						(156)	(156)	(141)		(30)	(120)
14	EWA Gain Reduction					Max Re	0									
15		42	0	0	42	0	0			30	(180)	(150)	(108)	16	(59)	(150)
16																
17	F		24		24	(60)		0	0			0	(36)			184
18	M		15		15			0	0			0	15	198		0
19	A		18		18			0	0			0	18			156
20	M				0			0	0			0	0		(14)	64
21	J				0			0	0	16		16	16			107
22	J				0			0	0	17		17	17			3
23	A				0			0	0		(41)	(41)	(41)			(11)
24	S				0			0	0		(34)	(34)	(34)			7
25	Feb	0	57	0	57	(60)	0	0	0	33	(75)	(42)	(45)	198	(14)	510
26																
27	Tota	42	57	0	99	(60)	0	0	0	63	(255)	(192)	(153)	214	(73)	360
28																
29	B(2) Accounting															
30																600 kaf year for b2
31	Net WQCP Storage: Oct - January													(150)		
32	Net WQCP Flow Changes: February - September													(42)		Put projects at minimum allowable
33	WQCP Exports													360		initial conditions in Oct.
34	Total Net WQCP													168		Seems close to actual carryover from
35	Net AFRP storage: Oct - January													42		last year.
36	Net AFRP flow changes: February - September													(3)		
37	Net Discretionary export b(2) except Section III													141		
38	Upstream Release Reductions (Oct - Jan)													(180)		
39	Upstream Release Reductions (Feb - Sep)													(135)		
40	Net Upstream Storage Change (AFRP + WQCP)													(108)		
41	Net Upstream Release: February - September													(45)		
42	Net Export Change, not including S III.													501		Not able to spend even a fraction of allowed
43	Section 3 water released													0		b2
44	Section 3 water exported													0		
45	Section 3 Export cuts													0		Assume too dry to buy sod.
46	Gross Upstream fish actions													42		but buy nod. Since watear bank
47	Gross Export fish actions													574		existed historically.
48	Gross Fish Actions													481		
49	Net Feb - Sep Export reduction													694		since slr ended so high, charge 198 to C VP
50	Total b(2) Spent													348		even though at 5% deliveries.
51	Export cuts beyond WQCP													214		
52	Unused															eliminated 140 or so of b(2) areleases
53	Unused															since used to meet m/l standard.
54	Unused															wouldn't matter if charged since sow far
55	Unused															below 600 kasf.
56	Unused															
57	Unused															
58	Unused															
59	Unused															
60	Unused															
61	Unused															
62																

	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			0
11			N			0
12			D			0
13			J			0
14						
15	0	0		0	0	0
16						
17			F			0
18			M			0
19			A	272		272
20			M			0
21			J			0
22			J			0
23			A			0
24			S			0
25	0	0		272	0	272
26						
27	0	0		272	0	272
28						
29						
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59						
60						
61						
62						

	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	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	0
19									0	272
20									0	0
21									0	0
22									0	0
23						50			50	50
24									0	0
25	0	0	0	0	0	50	0	0	50	(222)
26										
27	0	0	0	0	0	50	0	0	50	(222)
28										
29	EWA Accounting						EWA	SWP	CVP	
30	Upstream Releases						0			
31	Water Backed upstream						0			
32	Total Export Cuts made						272			
33	Export Supplies Generated						50			
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						0			
41	SWP Gain						0			
42										
43	NOD Water Purchases						50			
44	EWA EOY Balance in CVP SLR						-179			
45	EWA EOY Balance in SWP SLR						0			
46	EWA EOY Balance in MWD						0			
47	Vidler						200			
48	EWA in Shasta						32			
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									
62	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																
9	Initial															
10	valu	43	0		200	243	0	32	0	0	39					
11	O	43	0		200	243	0	32			39	0	0	0		
12	N	43	0		200	243	0	32			39	0	0	0		
13	D	43	0		200	243	0	32			39	0	0	0		
14	J	43	0		200	243	0	32			39	0	0	0		
15												0	0	0		
16																
17	F	43	0		200	243	0	32			39	0	0	0		
18	M	43	0		200	243	0	32			39	0	0	0		
19	A	-229	0		200	-29	-272	32			39	0	0	0		
20	M	-229	0		200	-29	0	32			39	0	0	0		
21	J	-229	0		200	-29	0	32			39	0	0	0		
22	J	-229	0		200	-29	0	32			39	0	0	0		
23	A	-179	0		200	21	50	32			39	0	0	0		
24	S	-179	0		200	21	0	32			39	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																
41																
42																
43																
44																
45																
46																
47																
48																
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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 5																															
2	Year	1992										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	Increa	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					33		33	33	21		(47)			O			0	34								34	34
11	N		30		30					31		31	61		(21)	(29)			N			0									0	0
12	D		30		30						(3)	(3)	27		(34)	(7)			D			0									0	0
13	J		45		45					1		1	46	30	(42)	(226)			J			0									0	0
14	EWA Gain Reduction					Max Re	0																									
15		0	105	0	105	0	0			65	(3)	62	167	51	(97)	(309)	0	0		0	0	0	34	0	0	0	0	0	0	0	34	34
16																																
17	F				0			0	0		(40)	(40)	(40)	112		1			F			0									0	0
18	M		20		20			0	0		(28)	(28)	(8)	70		151			M	63		63									0	-63
19	A		30		30			0	0	20		20	50			201			A	32		32									0	-32
20	M		20		20	(120)		0	0		(117)	(117)	(217)			205			M	71		71							30		30	-41
21	J				0	(60)		0	0	206		206	146			(43)			J	241		241							30		30	-211
22	J		20		20			0	0		(2)	(2)	18			6	80		J			0				70			30		100	-100
23	A		20		20			0	0			0	20			(44)	80		A			0				80			30		110	-110
24	S				0			0	0			0	0			(18)			S			0						50	30		80	-80
25	Feb	0	110	0	110	(180)	0	0	0	226	(187)	39	(31)	182	0	459	160	0		407	0	407	0	0	0	150	0	50	150	0	350	(57)
26																																
27	Tota	0	215	0	215	(180)	0	0	0	291	(190)	101	136	233	(97)	150	160	0		407	0	407	34	0	0	150	0	50	150	0	384	(23)
28																																
29	B(2) Accounting																															
30																600 kaf year for b2																
31	Net WQCP Storage: Oct - January													62																		
32	Net WQCP Flow Changes: February - September													39		offset of 28+117 with makeup of 100																
33	WQCP Exports													150		foar net of 45 offset farom wqcp.																
34	Total Net WQCP													251																		
35	Net AFRP storage: Oct - January													105		Shoot for 555																
36	Net AFRP flow changes: February - September													(70)																		
37	Net Discretionary export b(2) except Section III													(136)		After AFRP' 205 of offset w/ 60 makeup																
38	Upstream Release Reductions (Oct - Jan)													(3)		for 540 total b(2)																
39	Upstream Release Reductions (Feb - Sep)													(367)																		
40	Net Upstream Storage Change (AFRP + WQCP)													167		hit the 640 cap on export impacts																
41	Net Upstream Release: February - September													(31)		so shifted to ewa, despite havign																
42	Net Export Change, not including S III.													286		b2.																
43	Section 3 water released													0																		
44	Section 3 water exported													0																		
45	Section 3 Export cuts													0																		
46	Gross Upstream fish actions													101																		
47	Gross Export fish actions													383																		
48	Gross Fish Actions													800																		
49	Net Feb - Sep Export reduction													641																		
50	Total b(2) Spent													422																		
51	Export cuts beyond WQCP													233																		
52	Unused																															
53	Unused																															
54	Unused																															
55	Unused																															
56	Unused																															
57	Unused																															
58	Unused																															
59	Unused																															
60	Unused																															
61	Unused																															
62																																

	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	-179	0		200	21	0	32	0	0	39					
10	O	-179	34		200	55	34	32			39	0	0	0		
11	N	-179	34		200	55	0	32			39	0	0	0		
12	D	-179	34		200	55	0	32			39	0	0	0		
13	J	-179	34		200	55	0	32			39	0	0	0		
14																
15												0	0	0		
16																
17	F	-179	34		200	55	0	32			39	0	0	0		
18	M	-242	34		200	-8	-63	32			39	0	0	0		
19	A	-274	34		200	-40	-32	32			39	0	0	0		
20	M	-315	34		200	-81	-41	32			39	0	0	0		
21	J	-526	34		200	-292	-211	32	241		39	0	0	0		
22	J	-426	34		200	-192	100	32	161		39	0	0	0		
23	A	-316	34		200	-82	110	32	81		39	0	0	0		
24	S	-236	34		200	-2	80	32	81		39	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																
62																

	EWA Accounting	EWA	SWP	CVP
	Upstream Releases	160		
	Water Backed upstream	0		
	Total Export Cuts made	407		
	Export Supplies Generated	384		
	E/I	34		
	500 cfs	0		
	JPOD: Excess flows	0		
	JPOD: EWA storage	150		
	Transfer NOD Purchases	50		
	Net Spill	0		
	SOD Purchase	150		
	SWP Gain	0		
	NOD Water Purchases	50		
	EWA EOY Balance in CVP SLR	-236		
	EWA EOY Balance in SWP SLR	34		
	EWA EOY Balance in MWD	0		
	Vidler	200		
	EWA in Shasta	32		
	EWA in Folsom	81		
	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			
	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		

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CALFED GAME 5

	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
2	Year	1993										CVP Accounting				
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		3		3					43		43	46			(57)
11	N		4		4					5		5	9			(7)
12	D	15	12		27							0	27	111		
13	J	45			45							0	45	168		
14	EWA Gain Reduction					Max Re	0									
15		60	19	0	79	0	0			48	0	48	127	279	0	(64)
16																
17	F				0			0	0			0	0	178		(11)
18	M				0			0	0		(48)	(48)	(48)			16
19	A				0			0	0			0	0	294		4
20	M				0			0	0			0	0			
21	J				0			0	0			0	0			
22	J				0			0	0	18		18	18			(5)
23	A				0			0	0		(5)	(5)	(5)			
24	S				0			0	0			0	0			
25	Feb	0	0	0	0	0	0	0	0	18	(53)	(35)	(35)	472	0	4
26																
27	Tota	60	19	0	79	0	0	0	0	66	(53)	13	92	751	0	(60)

	U	V	W	X	Y	Z
2	EWA					
4	Upstream					Export
5	Upstream Balance					Cuts
6	Increas	Reduced		CVP	SWP	Total
7	Releas	Releases		EWA	EWA	Cuts
8		(negative		Export	Export	
9				Cuts	Cuts	
10			O			0
11			N			0
12			D			0
13			J			0
14						
15	0	0		0	0	0
16						
17			F			0
18			M			0
19			A	30		30
20			M	367	(40)	327
21			J	75		75
22			J			0
23	25		A	-60	60	0
24	25		S	-60	60	0
25	50	0		352	80	432
26						
27	50	0		352	80	432

	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
2			EWA Accounting							
4			Export Supply Factors							
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
10									0	0
11	24								24	24
12	59								59	59
13									0	0
14										
15	83	0	0	0	0	0	0	0	83	83
16										
17									0	0
18									0	0
19									0	-30
20							30		30	-297
21							30		30	-45
22							30		30	30
23	7					25	30		62	62
24						25	30		55	55
25	7	0	0	0	0	50	150	0	207	(225)
27	90	0	0	0	0	50	150	0	290	(142)

	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
2												Projects				
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	-202	0		200	-2	0	32	81	0	39					
10	O	-202	0		200	-2	0	32	81		39	0	0	0		
11	N	-202	24		200	22	24	32	81		39	0	0	0		
12	D	-202	83		200	81	59	32	81		39	0	0	0		
13	J	-202	83		200	81	0	32	81		39	0	0	0		
15												0	0	0		
17	F	-202	83		200	81	0	32	81		39	0	0	0		
18	M	-202	83		200	81	0	32	81		39	0	0	0		
19	A	-232	83		200	51	-30	32	81		39	0	0	0		
20	M	-569	123		200	-246	-297	0	0		0	0	0	0		
21	J	-614	123		200	-291	-45	0	0		0	0	0	0		
22	J	-584	123		200	-261	30	0	0		0	0	0	0		
23	A	-462	63		200	-199	62	0	0		0	0	0	0		
24	S	-347	3		200	-144	55	0	0		0	0	0	0		
25												0	0	0		

	A	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q
29	B(2) Accounting															
30																
31	Net WQCP Storage: Oct - January													48		offset of 16 from wqcp.
32	Net WQCP Flow Changes: February - September													(35)		
33	WQCP Exports													(60)		b/o = ? assume 40 kaf
34	Total Net WQCP													(47)		
35	Net AFRP storage: Oct - January													79		shasta and folsom spill in spring
36	Net AFRP flow changes: February - September													0		so lose storage up there.
37	Net Discretionary export b(2) except Section III													751		
38	Upstream Release Reductions (Oct - Jan)													0		could have made upstream releases from
39	Upstream Release Reductions (Feb - Sep)													(53)		ewa water in storage. Then would have
40	Net Upstream Storage Change (AFRP + WQCP)													127		had more b2 for export cuts.
41	Net Upstream Release: February - September													(35)		
42	Net Export Change, not including S III.													691		
43	Section 3 water released													0		
44	Section 3 water exported													0		
45	Section 3 Export cuts													0		
46	Gross Upstream fish actions													73		
47	Gross Export fish actions													751		
48	Gross Fish Actions													856		
49	Net Feb - Sep Export reduction													476		
50	Total b(2) Spent													783		
51	Export cuts beyond WQCP													751		
52	Unused															
53	Unused															
54	Unused															
55	Unused															
56	Unused															
57	Unused															
58	Unused															
59	Unused															
60	Unused															
61	Unused															
62																

	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ
29	EWA Accounting						EWA	SWP	CVP	
30	Upstream Releases						50			
31	Water Backed upstream						0			
32	Total Export Cuts made						432			
33	Export Supplies Generated						290			
34	E/I						90			
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						0			
42										
43	NOD Water Purchases						50			
44	EWA EOY Balance in CVP SLR						-347			
45	EWA EOY Balance in SWP SLR						3			
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									
62	Unused									

	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ
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															

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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 5																															
2	Year	1994										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	Increase	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					20		20	20	38					O			0	16								16	16
11	N				0							0	0	(51)					N			0									0	0
12	D	105	60		165							0	165						D	27		27								61	61	34
13	J	105	67		172						(145)	(145)	27						J			0								103	103	103
14	EWA Gain Reduction					Max R	0																									
15		210	127	0	337	0	0			20	(145)	(125)	212	(13)	0	0	0	0		27	0	27	16	0	0	0	0	0	0	164	180	153
16																																
17	F	75	30		105			0	0	8		8	113			1			F	126		126								3	3	-123
18	M		30		30			0	0	154		154	184			32			M	33		33								5	5	-28
19	A		30		30			0	0		(152)	(152)	(122)			161			A	134		134									0	-134
20	M				0			0	0		(49)	(49)	(49)			187			M	40	(40)	0							-30		30	30
21	J				0			0	0		(92)	(92)	(92)		(208)	133			J	208		208							30		30	-178
22	J				0			0	0	17		17	17						J			0							30		30	30
23	A				0			0	0		(54)	(54)	(54)						A			0							30		30	30
24	S				0		88	88	88	10		10	98						S			0							30		30	30
25	Feb	75	90	0	165	0	88	88	88	189	(347)	(158)	95	0	(208)	514	0	0		541	(40)	501	0	0	0	0	0	0	150	8	158	(343)
26																																
27	Tota	285	217	0	502	0	88	88	88	209	(492)	(283)	307	(13)	(208)	514	0	0		568	(40)	528	16	0	0	0	0	0	150	172	338	(190)
28																																
29	B(2) Accounting																															
30																600 kaf year.																
31	Net WQCP Storage: Oct - January													(125)																		
32	Net WQCP Flow Changes: February - September													(158)		224 kaf offset																
33	WQCP Exports													514		175 kaf recovery																
34	Total Net WQCP													231		49 kaf lost credit																
35	Net AFRP storage: Oct - January													337																		
36	Net AFRP flow changes: February - September													165		Probably needed magic water.																
37	Net Discretionary export b(2) except Section III													(221)		if had urchases 150 kaf in 1991																
38	Upstream Release Reductions (Oct - Jan)													(145)		would have been ok.																
39	Upstream Release Reductions (Feb - Sep)													(347)																		
40	Net Upstream Storage Change (AFRP + WQCP)													212																		
41	Net Upstream Release: February - September													7																		
42	Net Export Change, not including S III.													293																		
43	Section 3 water released													0		May had 120 kaf extra release not charged to b2																
44	Section 3 water exported													0		for temp control.																
45	Section 3 Export cuts													0																		
46	Gross Upstream fish actions													285		Assume -40 from b/o																
47	Gross Export fish actions													501																		
48	Gross Fish Actions													720																		
49	Net Feb - Sep Export reduction													306																		
50	Total b(2) Spent													600																		
51	Export cuts beyond WQCP													(13)																		
52	Unused																															
53	Unused																															
54	Unused																															
55	Unused																															
56	Unused																															
57	Unused																															
58	Unused																															
59	Unused																															
60	Unused																															
61	Unused																															
62																																

	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	-344	0		200	-144	0	0	0	0	0					
10	O	-344	16		200	-128	16					0	0	0		
11	N	-344	16		200	-128	0					0	0	0		
12	D	-371	77		200	-94	34					0	20.33	0		
13	J	-371	180		200	9	103					0	34.33	0		
14																
15												0	55	0		
16																
17	F	-497	183		200	-114	-123					0	1	0		
18	M	-530	188		200	-142	-28					0	1.667	0		
19	A	-666	188		200	-278	-136					0	0	0		
20	M	-676	228		200	-248	30	0	0			0	0	0		
21	J	-854	228		200	-426	-178	0				0	0	0		
22	J	-824	228		200	-396	30	0				0	0	0		
23	A	-794	228		200	-366	30	0				0	0	0		
24	S	-764	228		200	-336	30	0				0	0	0		
25												0	3	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																
41																
42																
43																
44																
45																
46																
47																
48																
49																
50																
51																
52																
53																
54																
55																
56																
57																
58																
59																
60																
61																
62																

	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				528			
33	Export Supplies Generated				338			
34	E/I				16			
35	500 cfs				0			
36	JPOD: Excess flows				0			
37	JPOD: EWA storage				0			
38	Transfer NOD Purchases				0			
39	Net Spill				0			
40	SOD Purchase				150			
41	SWP Gain				172			
42								
43	NOD Water Purchases				0			
44	EWA EOY Balance in CVP SLR				-764			
45	EWA EOY Balance in SWP SLR				228			
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							
62	Unused							

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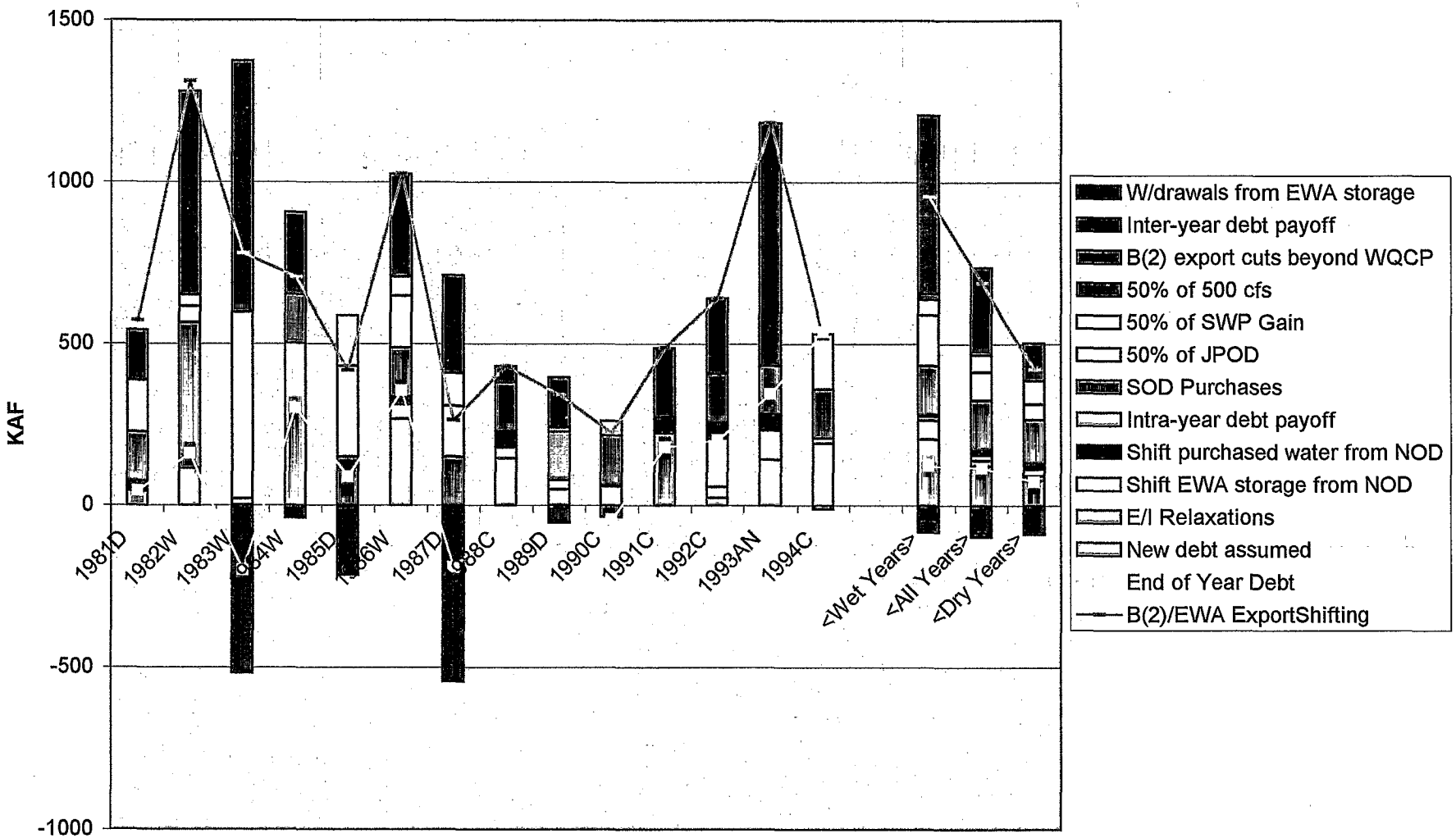
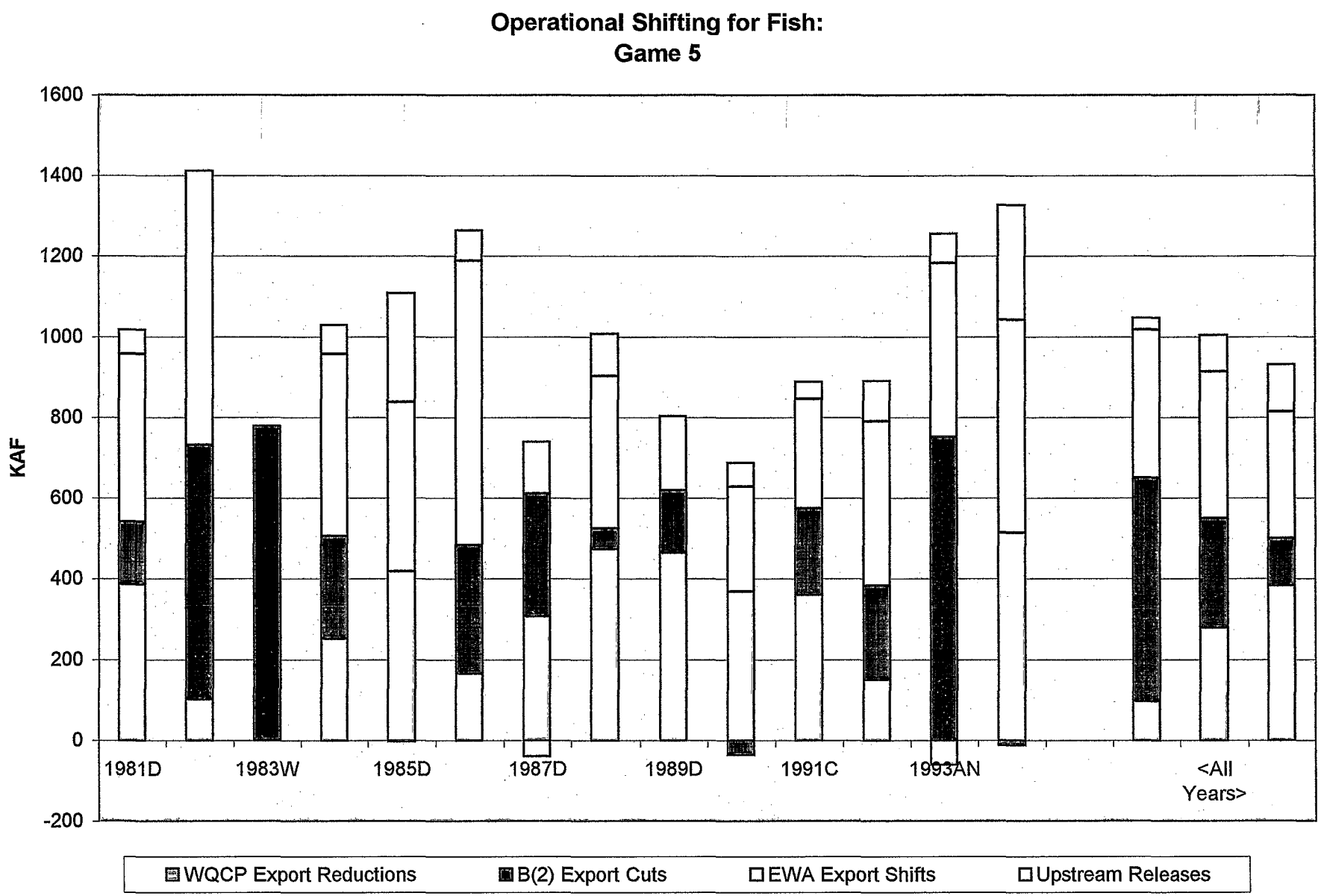
Analysis
Game 4
36647

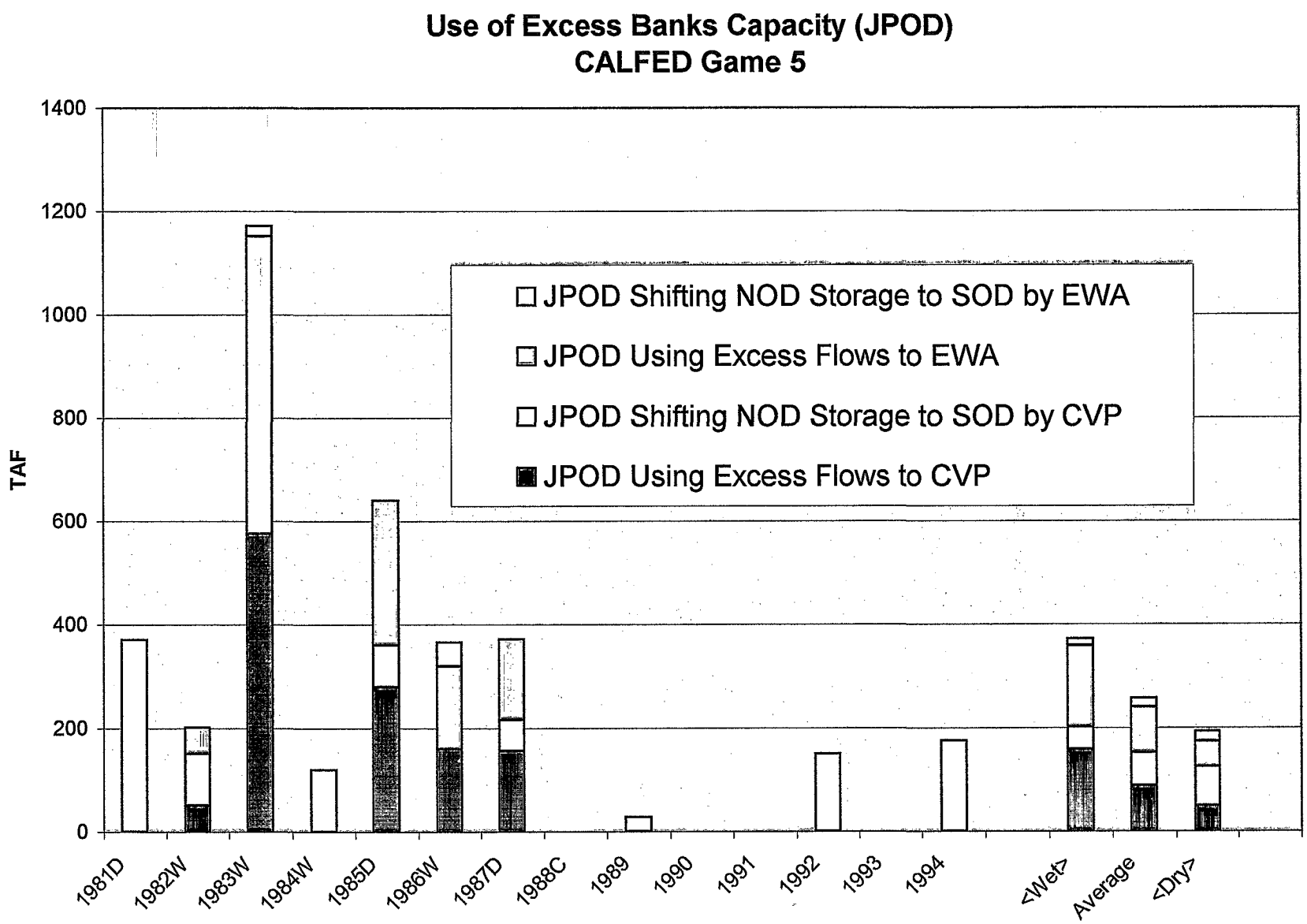
B(2) Accounting	1981D	1982W	1983W	1984W	1985D	1986W	1987D	1988C	1989D	1990C	1991C	1992C	1993A	1994C	<Wet Y	<All Ye	<Dry Years>
Net WQCP Storage: Oct - January	-25	0	0	0	-22	-86	-122	168	-37	-30	-150	62	48	-125	-17	-23	-31
Net WQCP Flow Changes: February - Sept	-52	0	0	72	-138	70	191	-63	22	58	-42	39	-35	-158	38	-3	-16
WQCP Exports	386	101	1	252	418	165	307	474	464	368	360	150	-60	514	97	279	382
Total Net WQCP	309	101	1	324	258	149	376	579	449	396	168	251	-47	231	103	253	335
Net AFRP storage: Oct - January	246	120	0	0	174	273	285	0	22	75	42	105	79	337	69	126	143
Net AFRP flow changes: February - Septen	90	0	0	210	492	0	0	0	23	255	-3	-70	0	165	58	83	106
Net Discretionary export b(2) except Sectio	155	630	778	254	-4	318	304	50	155	-37	141	136	751	-221	396	244	75
Upstream Release Reductions (Oct - Jan)	-68	-20	0	0	-42	-93	-153	-2	-37	-145	-180	-3	0	-145	128	-63	-86
Upstream Release Reductions (Feb - Sep)	-148	0	0	-109	-260	0	-281	-597	-218	-248	-135	-367	-53	-347	-22	-197	-289
Net Upstream Storage Change (AFRP + W	221	120	0	0	152	187	163	168	-15	45	-108	167	127	212	51	103	112
Net Upstream Release: February - Septem	38	0	0	282	354	70	191	-63	45	313	-45	-31	-35	7	96	80	90
Net Export Change, not including S III.	541	731	779	506	414	483	611	524	619	331	501	286	691	293	493	522	458
Section 3 water released	0	0	0	0	0	0	0	0	0	0	0	0	0	0	138	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	60	0	0	72	270	75	129	105	0	58	42	101	73	285	29	91	117
Gross Export fish actions	541	731	779	506	414	483	611	524	619	331	574	383	751	501	514	553	500
Gross Fish Actions	800	851	779	860	920	740	1034	734	649	717	481	800	856	720	796	782	762
Net Feb - Sep Export reduction	432	533	515	506	295	165	587	634	742	271	694	641	476	306	515	486	511
Total b(2) Spent	800	806	779	788	800	740	805	929	676	800	348	422	783	600	718	720	687
Export cuts beyond WQCP	155	630	778	254	-4	318	304	50	155	-37	214	233	751	-13	553	271	117

EWA Accounting	1981D	1982W	1983W	1984W	1985D	1986W	1987D	1988C	1989D	1990C	1991C	1992C	1993A	1994C			
Upstream Releases	0	0	0	30	0	0	0	0	60	11	0	160	50	0	6	22	26
Water Backed upstream	0	0	0	0	0	0	0	0	0	0	0	0	0	0	10	0	0
Total Export Cuts made	416	681	0	451	420	706	-41	379	185	261	272	407	432	528	368	364	314
Export Supplies Generated for EWA	341	536	524	-10	737	440	500	235	240	202	50	384	290	338	384	343	336
E/I	0	0	0	0	0	0	0	35	50	7	0	34	90	16	58	17	16
500 cfs	0	0	0	0	0	0	0	0	0	0	0	0	0	0	18	0	0
JPOD: Excess flows	0	51	576	0	280	160	156	0	0	0	0	0	0	0	157	87	48
JPOD: Transfer NOD storag	0	0	20	0	0	46	0	0	28	0	0	150	0	0	13	17	20
Transfer NOD Purchases	30	0	0	0	0	24	0	50	0	0	50	50	50	0	5	18	20
Net Spill	0	0	-72	-160	150	0	92	0	0	0	0	0	0	0	-36	1	27
SOD Purchase	150	450	0	150	150	150	150	150	150	150	0	150	150	150	150	150	133
SWP Gain	161	35	0	0	157	60	102	0	12	45	0	0	0	172	49	53	72
	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NOD Water Purchases	30	0	0	0	0	24	0	50	0	0	50	50	50	0	5	18	20
EWA EOY Balance in CVP S	9	-56	200	8	8	-350	0	-237	-287	-9	-179	-236	-347	-764	-30	-160	-188
EWA EOY Balance in SWP S	-54	-103	0	-309	-96	-4	191	284	389	52	0	34	3	228	-153	44	114
EWA EOY Balance in MWD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0
Vidler	0	0	160	200	200	200	200	200	200	200	200	200	200	200	112	169	178
EWA in Shasta	0	0	0	0	0	0	50	92	32	32	32	32	0	0	40	19	30
EWA in Folsom	0	0	0	0	0	0	0	0	0	0	0	81	0	0	0	6	9
EWA in Oroville	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	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
500 cfs	30	90	90	80	60	70	50	0	45	0	0	0	75	60	83	59	35
Total b(2) and EWA discretionary	571	1311	778	705	416	1024	263	429	340	224	486	640	1183	515	955	687	420
Net debt SOD	45	159	-200	301	88	354	-191	-47	-102	-43	179	202	344	536	123	116	74
Net Change in Debt	45	114	-359	501	-213	266	-545	144	-55	59	222	23	142	192	173	38	-14
New debt Assumed	45	114	0	501	0	266	0	144	0	59	222	23	142	192	205	122	76
Inter-year debt payoff	0	0	-359	0	-213	0	-545	0	-55	0	0	0	0	0	-43	-84	-90
Intra-year debt payoff	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
W/drawals from EWA storag	0	0	-160	-40	0	0	0	0	0	0	0	0	0	0	-40	-14	0

Operations in Support of EWA Export Shifts
Game 5

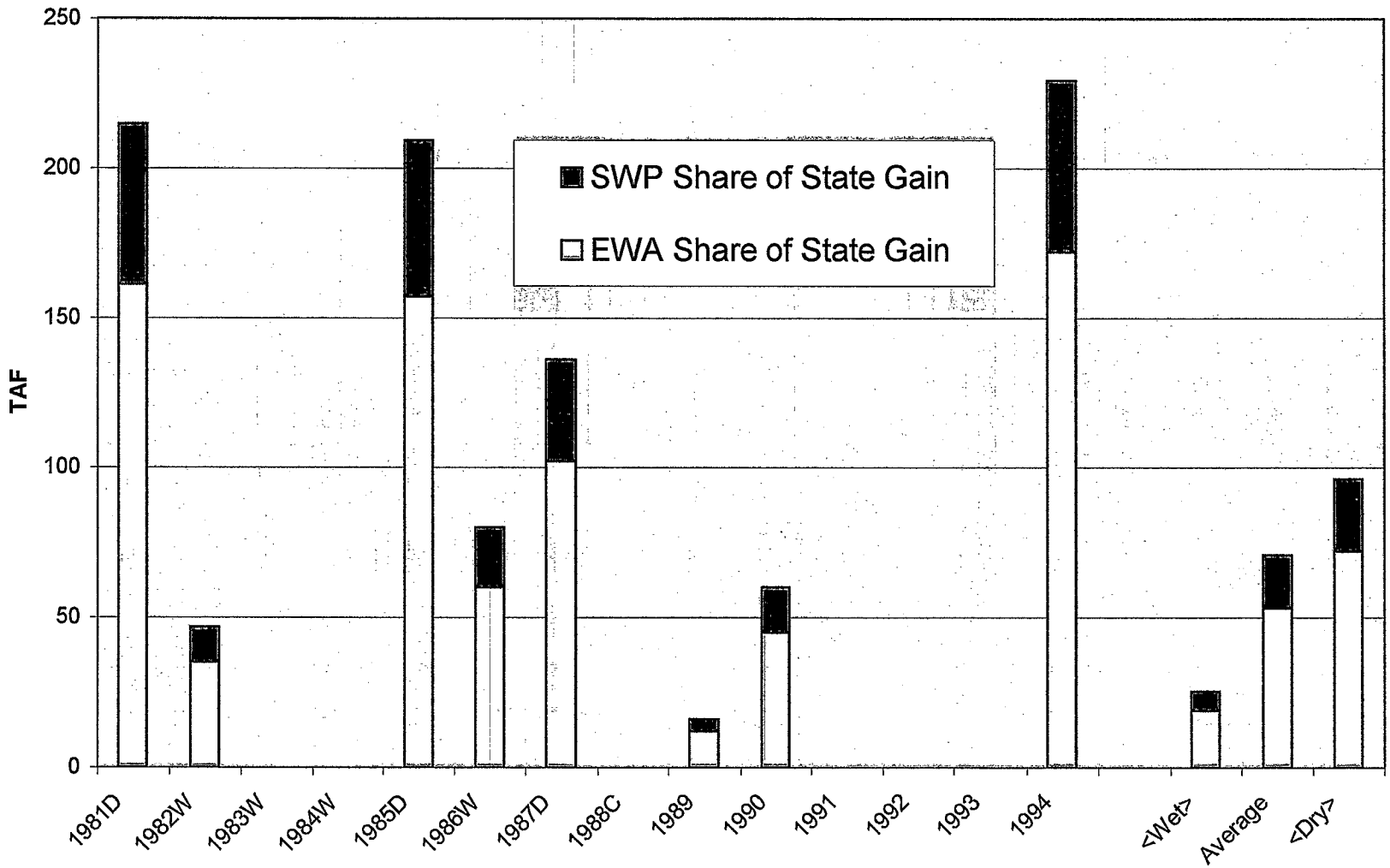


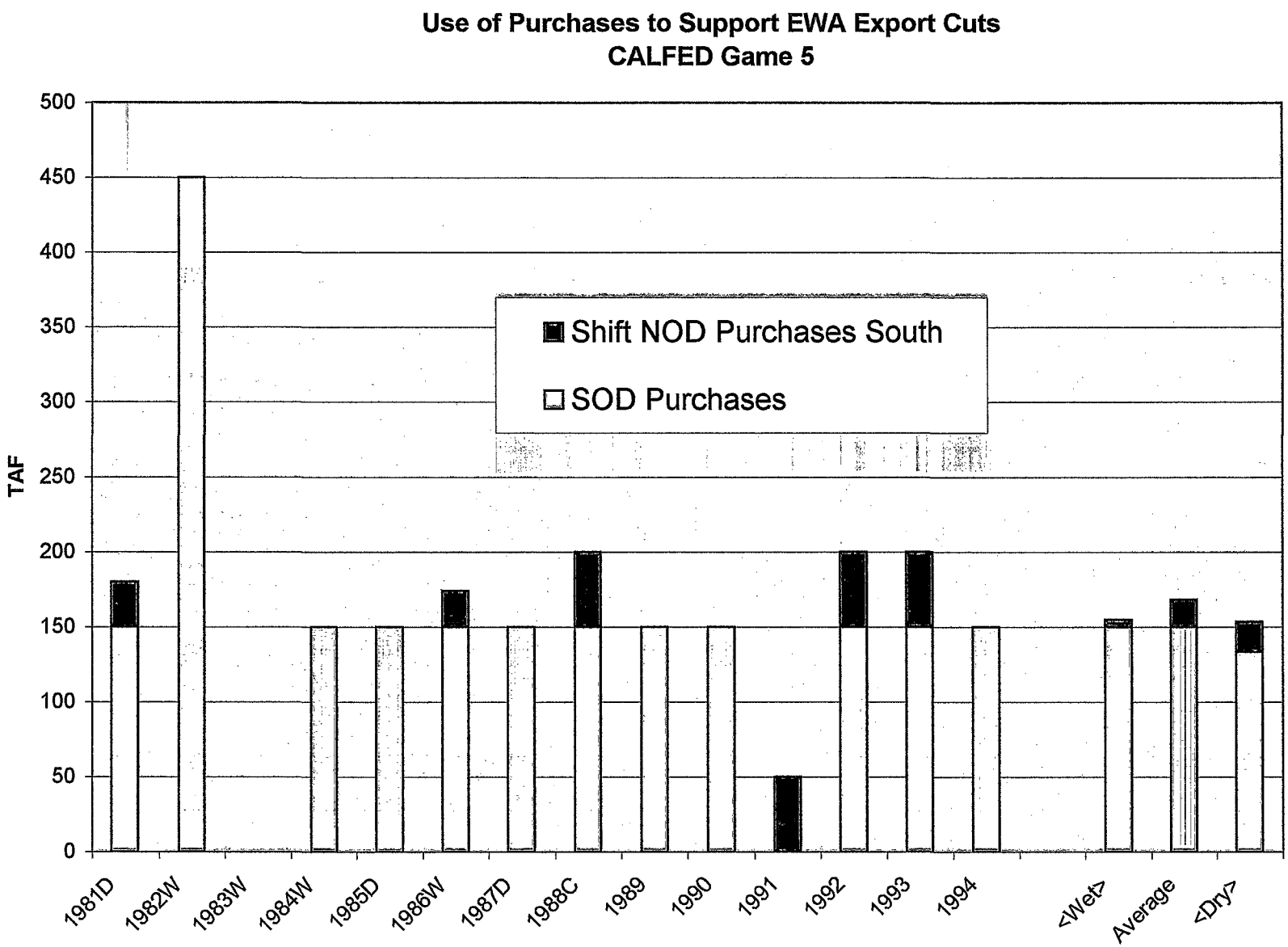

Operational Shifting for Fish:
Game 5
KAF
1600
1400
1200
1000
800
600
400
200
0
-200
1981D
1983W
1985D
1987D
1989D
1991C
1993AN
<All Years>
WQCP Export Reductions
B(2) Export Cuts
EWA Export Shifts
Upstream Releases


Use of Excess Banks Capacity (JPOD)
CALFED Game 5
TAF
1400
1200
1000
800
600
400
200
0
JPOD Shifting NOD Storage to SOD by EWA
JPOD Using Excess Flows to EWA
JPOD Shifting NOD Storage to SOD by CVP
JPOD Using Excess Flows to CVP
1981D
1982W
1983W
1984W
1985D
1986W
1987D
1988C
1989
1990
1991
1992
1993
1994
<Wet>
Average
<Dry>

D-055751

State Gain Benefits
CALFED Game 5





D-055753

D-055753

	1981D	1982W	1983W	1984W	1985D	1986W	1987D	1988C	1989	1990	1991	1992	1993	1994	<Wet>	Average	<Dry>
E/I for EWA	0	0	0	0	0	0	0	35	50	7	0	34	90	16	0	17	16
JPOD Using Excess Flows to EWA	0	51	576	0	280	160	156	0	0	0	0	0	0	0	157	87	48
JPOD Using Excess Flows to CVP	0	51	576	0	280	160	156	0	0	0	0	0	0	0	157	87	48
JPOD Shifting NOD Storage to SOD by EW	0	0	20	0	0	46	0	0	28	0	0	150	0	0	13	17	20
JPOD Shifting NOD Storage to SOD by CVI	371	100	0	120	80	0	60	0	0	0	0	0	0	175	44	65	76
Total JPOD	371	202	1172	120	640	366	372	0	28	0	0	150	0	175	372	257	193
Transfer NOD Purchases by EWA	30	0	0	0	0	24	0	50	0	0	50	50	50	0	5	18	20
SOD Purchase by EWA	150	450	0	150	150	150	150	150	150	150	0	150	150	150	150	150	133
EWA Share of SWP Gain	161	35	0	0	157	60	102	0	12	45	0	0	0	172	19	53	72
SWP Share of SWP Gain	54	12	0	0	52	20	34	0	4	15	0	0	0	57	6	18	24
Total State Gain	215	47	0	0	209	80	136	0	16	60	0	0	0	229	25	71	96
500 cfs benefit to SWP	30	90	90	80	60	70	50	0	45	0	0	0	75	60	66	46	27