	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	CALFED GAME 4																			
2	Year	1981					CVP Accounting								EWA					
3															Upstream					Export
4			Upstream Balance						Export Balance						Upstream Balance					Cuts
5			Increas	AFRP	Increas	WQCP	Total	Net	Discret	Increas	WQCP	Section	Section	Section	Increas	Reduced		CVP	SWP	Total
6			Releas	Reset	WQCP	Reset	WQCP	Upstrea	Cuts	Pumping		Releas	Exports	Export	Releas	Releases		EWA	EWA	Cuts
7				(negative		(negative		Balance		(negative				Cuts		(negative		Export	Export	
8				Offset		Offset												Cuts	Cuts	
9				negative		Negative														
10	October		102			(31)	(31)	71			52						O			0
11	November			(18)	17		17	0	63		(28)						N			0
12	December		180			(35)	(35)	145			(24)						D			0
13	January		192		3		3	195									J			0
14	Oct - Jan Subt		474	(18)	20	(66)	(46)	410	63	0	0	0	0	0	0	0		0	0	0
15																				
16	February				32		32	32	0		17						F		50	50
17	March				7		7	7	0		23						M		50	50
18	April				116		116	116	0	(45)	106						A	45	110	155
19	May					(101)	(101)	(101)	0		56						M		53	53
20	June				60		60	60			(12)						J			0
21	July				10		10	10			74						J		70	70
22	August					(119)	(119)	(119)			98						A		30	30
23	September				5		5	5			5						S			0
24	Feb - Sep Subt		0	0	230	(220)	10	10	0	(45)	367	0	0	0	0	0		45	363	408
25																				
26	Totals		474	(18)	250	(286)	(36)	420	63	(45)	367	0	0	0	0	0				408
27																				
28	B(2) Accounting																			
29	Net WQCP Storage: Oct - January								(46)											
30	Net WQCP Flow Changes: February - September								10											
31	WQCP Exports								367											
32	Total Net WQCP								331											
33	Net AFRP storage: Oct - January								456											
34	Net AFRP flow changes: February - September								0											
35	Net Discretionary export b(2) except Section III								18											
36	Upstream Release Reductions (Oct - Jan)								(84)											
37	Upstream Release Reductions (Feb - Sep)								(220)											
38	Net Upstream Storage Change (AFRP + WQCP)								410											
39	Net Upstream Release: February - September								10											
40	Net Export Change, not including S III.								385											
41	Section 3 water released								0											
42	Section 3 water exported								0											
43	Section 3 Export cuts								0											
44	Gross Upstream fish actions								474											
45	Gross Export fish actions								430											
46	Gross Fish Actions								904											
47	Net Feb - Sep Export reduction								322											
48	Total b(2) Spent								1225											
49	Export cuts beyond WQCP								63	[Decrease by 45 due to EWA assuming this debt)										
50	Unused																			
51	Unused																			
52	Unused																			
53	Unused																			
54	Unused																			

	U	V	W	X	Y	Z	AA	AB	AC	AD
1										
2			EWA Accounting							
3			Export Supply Factors							
4										
5	E/I	500 cfs	JPOD	JPOD	Spill	NOD	SOD	SWP B	Sum	Sum
6			split	Not spl	Debt	XFER	XFER	Exports	Export	factors
7					(Storage)				Factors	&Cuts
8										
9										
10								45	45	45
11									0	0
12					15				15	15
13					20				20	20
14	0	0	0	0	35	0	0	45	80	80
15										
16					10				10	-40
17									0	-50
18									0	-155
19							25		25	-28
20				34					34	34
21		13							13	-57
22	100								100	70
23						25			25	25
24	100	13	0	34	10	25	25	0	207	(201)
25										
26	100	13	0	34	45	25	25	45	287	(121)
27										
28	EWA Accounting						EWA	SWP	CVP	
29	Upstream Releases						0			
30	Water Backed upstream						0			
31	Total Export Cuts made						408			
32	Export Supplies Generated						287			
33		E/I					100			
34		500 cfs					13			
35		JPOD: Excess flows					0			
36		JPOD: EWA storage					34			
37		Transfer NOD Purchases					25			
38		Net Spill					45			
39		SOD Purchase					25			
40		SWP Gain					45			
41										
42		NOD Water Purchases					25			
43		EWA EOY Balance in CVP SLR					2			
44		EWA EOY Balance in SWP SLR					-65			
45		EWA EOY Balance in MWD					-90			
46		Vidler					30			
47		EWA in Shasta					0			
48		EWA in Folsom					-180			
49		EWA in Oroville					0			
50										
51	Use of Excess Banks Capacity for excess flows									
52		Net new pumping allowed					45	This pumping possible because of deposits into Vidler		
53		If no debt or EWA storage					0			
54		If no EWA or b(2).					0			

	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
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%	50%	50%	Not split	
8	Initial															
9	values	0	0	0	0	0	0	0	0	0						
10	October		25		20	45	45					0	45	0		
11	November	5			40	45	0					0	0	0		
12	December	0			60	60	15					0	0	0		
13	January	0			80	80	20					0	0	0		
14												0	45	0		
15																
16	February		-50		90	40	-40					0	0	0		
17	March		-100		90	-10	-50					0	0	0		
18	April	-45	-210		90	-165	-155		-60			0	0	0		
19	May	-45	-190	-30	70	-195	-30		-120			0	0	0		
20	June	-11	-140	-60	50	-161	34		-180			0	0	0		
21	July	2	-160	-90	30	-218	-57		-180			13	0	0		
22	August	2	-90	-90	30	-148	70		-180			0	0	0		
23	Septem	2	-65	-90	30	-123	25		-180			0	0	0		
24												13	0	0		
25																
26																
27																
28	DWRSIM/ Daily Model															
29				SWP	CVP											
30																
31																
32	SIM continuous Exports															
33	SIM yearly exports															
34	Daily Base Exports															
35	Daily Final Exports															
36	Change in Exports															
37	Final DWRSIM Exports															
38	CVP Delivery Cuts															
39																
40																
41																
42																
43																
44																
45																
46																
47																
48																
49																
50																
51																
52																
53																
54																

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	CALFED GAME 4																			
2	Year	1982					CVP Accounting								EWA					
3															Upstream					Export
4			Upstream Balance						Export Balance						Upstream Balance					Cuts
5			Increas	AFRP	Increas	WQCP	Total	Net	Total	Increas	WQCP	Section	Section	Section	Increas	Reduced		CVP	SWP	Total
6			Release	Reset	WQCP	Reset	WQCP	Upstrea	Cuts	Pumping		Release	Exports	Export	Release	Releases		EWA	EWA	Cuts
7				(negative		(negative		Balance		(negative				Cuts		(negative		Export	Export	
8				Offset		Offset												Cuts	Cuts	
9				negative		Negative														
10	October		96		20		20	116									O			0
11	November		33	(60)		(20)	(20)	47	0								N			0
12	December		33				0	33	74								D			0
13	January		35			0	0	35	32								J			0
14	Oct - Jan Subto		197	(60)	20	(20)	0	137	106	0	0	0	0	0	0	0		0	0	0
15																				
16	February						0	0	120		1						F			0
17	March						0	0	360								M			0
18	April						0	0	80								A	25	135	160
19	May						0	0	0		(99)						M		437	437
20	June						0	0			(95)						J			0
21	July						0	0			98						J			0
22	August						0	0			98						A			0
23	September					0	0	0			2						S			0
24	Feb - Sep Subt		0	0	0	0	0	0	560	0	5	0	0	0	0	0		25	572	597
25																				
26	Totals		197	(60)	20	(20)	0	137	666	0	5	0	0	0	0	0		25	572	597
27																				
28	B(2) Accounting																			
29	Net WQCP Storage: Oct - January								0											
30	Net WQCP Flow Changes: February - September								0											
31	net WQCP Exports								5											
32	Total Net WQCP								5											
33	Net AFRP storage: Oct - January								137											
34	Net AFRP flow changes: February - September								0											
35	Net Discretionary export b(2) except Section III								666											
36	Upstream Release Reductions (Oct - Jan)								(80)											
37	Upstream Release Reductions (Feb - Sep)								0											
38	Net Upstream Storage Change (AFRP + WQCP)								137											
39	Net Upstream Release: February - September								0											
40	Net Export Change, not including S III.								671											
41	Section 3 water released								0											
42	Section 3 water exported								0											
43	Section 3 Export cuts								0											
44	Gross Upstream fish actions								197											
45	Gross Export fish actions								671											
46	Gross Fish Actions								868											
47	Net Feb - Sep Export reduction								565											
48	Total b(2) Spent								944											
49	Export cuts beyond WQCP								666											
50	Unused																			
51	Unused																			
52	Unused																			
53	Unused																			
54	Unused																			
55	Unused																			

	U	V	W	X	Y	Z	AA	AB	AC	AD
1										
2			EWA Accounting							
3			Export Supply Factors							
4										
5	E/I	500 cfs	JPOD	JPOD	Spill	NOD	SOD	SWP B	Sum	Sum
6			split	Not spli	Debt	XFER	XFER	Exports	Export	factors
7					(Storage)			split	Factors	&Cuts
8										
9										
10								40	40	40
11								7	7	7
12								0	0	0
13			80		108				188	188
14	0	0	80		108	0	0	47	235	235
15										
16									0	0
17									0	0
18									0	-160
19							100		100	-337
20									0	0
21		10							10	10
22		15							15	15
23		15							15	15
24	0	40	0		0	0	100	0	140	(457)
25										
26	0	40	80		108	0	100	47	375	(222)
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										

	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
1																
2												Projects				
3																
4		Negative values for borrowed water														
5		SLR:CV	SLR:SV	MWD	Vidler	Sum	Change	Shasta	Folsom	Oroville		SWP S	SWP	CVP	CVP	
6						Export	Export	Storage				500cfs	Gain	JPOD	JPOD	
7						Storage						50%	50%	50%	Not split	
8																
9	Initial															
10	values	2	-65	-90	30	-123	0		-180	0						
11	October		-55	-60	30	-85	38					0	40	0		
12	November		-78	-30	30	-78	7		0			0	7	0		
13	December		-108	0	30	-78	0		0			0	0	0		
14	Januar	82	0	0	30	112	190		0			0	0	80		
15												0	47	80		
16	Februa	82	0	0	30	112	0		0			0	0	0		
17	March	82	0	0	30	112	0					0	0	0		
18	April	57	-135	0	30	-48	-160					0	0	0		
19	May	0	-415	0	30	-385	-337					0	0	0		
20	June	0	-414	0	30	-384	1					0	0	0		
21	July	0	-404	0	30	-374	10					10	0	0		
22	August	0	-389	0	30	-359	15					15	0	0		
23	Septem	0	-374	0	30	-344	15		0			15	0	0		
24												40	0	0		
25																
26																
27																
28	DWRSIM/ Daily Model															
29				SWP	CVP											
30																
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																

	U	V	W	X	Y	Z	AA	AB	AC	AD
28	EWA Accounting						EWA	SWP	CVP	
29	Upstream Releases						0			
30	Water Backed upstream						0			
31	Total Export Cuts made						597			
32	Export Supplies Generated						375			
33		E/I					0			
34		500 cfs					40			
35		JPOD: Excess flows					80			
36		JPOD: EWA storage					0			
37		Transfer NOD Purchases					0			
38		Net Spill					108			
39		SOD Purchase					100			
40		SWP Gain					47			
41										
42		NOD Water Purchases					0			
43		EWA EOY Balance in CVP SLR					0			
44		EWA EOY Balance in SWP SLR					-374			
45		EWA EOY Balance in MWD					0			
46		Vidler					30			
47		EWA in Shasta					0			
48		EWA in Folsom					0			
49		EWA in Oroville					0			
50										
51	Use of Excess Banks Capacity for excess flows									
52		Net new pumping allowed					268			
53		If no debt or EWA storage					268			
54		If no EWA or b(2).					268			
55	Unused									

	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
28																
29				SWP	CVP											
30																
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	This full amount seems legitimate, given that b(2) opens up extra SLR storage space.															
54	long before SLR would have filled in WQCP baseline (see SLR Storage Graph).															
55	Most or all probably available even if no b(2) water, assuming the WQCP VAMP cuts are made.															

D-055723

D-055723

CALFED GAME 4

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
2	Year	1983					CVP Accounting								EWA					
3															Upstream					Export
4			Upstream Balance						Export Balance						Upstream Balance					Cuts
5			Increas	AFRP	Increas	WQCP	Total	Net	Total	Increas	WQCP	Sectior	Sectior	Sectior	Increas	Reduced		CVP	SWP	Total
6			Releas	Reset	WQCP	Reset	WQCP	Upstre	Cuts	Pumping		Releas	Exports	Export	Releas	Releases		EWA	EWA	Cuts
7				(negative		(negative		Balance		(negative				Cuts		(negative		Export	Export	
8				Offset		Offset												Cuts	Cuts	
9				negative		Negative														
10	October						0	0									O			0
11	November						0	0	210								N			0
12	December						0	0	210								D			0
13	January					0	0	0	30								J			0
14	Oct - Jan Subt		0	0	0	0	0	0	450	0	0	0	0	0	0	0		0	0	0
15																				
16	February						0	0	130		1						F			0
17	March						0	0	65								M			0
18	April						0	0	100								A		79	79
19	May						0	0	185		(99)						M		90	90
20	June						0	0	81		(95)						J		133	133
21	July						0	0									J			0
22	August						0	0									A			0
23	September					0	0	0									S			0
24	Feb - Sep Sub		0	0	0	0	0	0	561	0	(193)	0	0	0	0	0		0	302	302
25																				
26	Totals		0	0	0	0	0	0	1011	0	(193)	0	0	0	0	0		0	302	302

	U	V	W	X	Y	Z	AA	AB	AC	AD
2			EWA Accounting							
3			Export Supply Factors							
5	E/I	500 cfs	JPOD	JPOD	Spill	NOD	SOD	SWP B	Sum	Sum
6			split	Not spl	Debt	XFER	XFER	Exports	Export	factors
7					(Storage)			split	Factors	&Cuts
14	0	0	0	0	374	0	0	0	374	374
16									0	0
17									0	0
18					20				20	-59
19									0	-90
20									0	-133
21		15	45		320				380	380
22		15	0		5				20	20
23		15	115		-110				20	20
24	0	45	160		235	0	0	0	440	138
26	0	45	160		609	0	0	0	814	512

	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV
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%	50%	50%	Not split			
8	Initial																	
9	values	0	-374	0	30	-344				0								
10	Octobe	0	-374	0	30	-344	0					0	0	0				
11	Novem	0	-274	0	30	-244	100		0			0	0	0				
12	Decem	0	0	0	30	30	274		0			0	0	0				
13	Januar	0	0	0	30	30	0		0			0	0	0	180			
14												0	0	0				
16	Februa	0	0	0	30	30	0		0			0	0	0	150	Rights to 280	But cut	
17	March		-20		50	30	0					0	0	0	75	rights to 140.	But cut	
18	April		-99		70	-29	-59					0	0	0	75			
19	May		-210		90	-120	-91					0	0	0				
20	June		-360		110	-250	-130					0	0	0				
21	July		0		130	130	380					15	0	45				
22	August		0		150	150	20					15	0	0				
23	September		0		170	170	20					15	0	115	115			
24												45	0	160	415			

	A	I	J	K	L	M	N	O	P	Q	R	S	T
28	B(2) Accounting												
29	Net WQCP Storage: Oct - January		0										
30	Net WQCP Flow Changes: February - September		0										
31	net WQCP Exports		(193)										
32	Total Net WQCP		(193)										
33	Net AFRP storage: Oct - January		0										
34	Net AFRP flow changes: February - September		0										
35	Net Discretionary export b(2) except Section III		1011										
36	Upstream Release Reductions (Oct - Jan)		0										
37	Upstream Release Reductions (Feb - Sep)		0										
38	Net Upstream Storage Change (AFRP + WQCP)		0										
39	Net Upstream Release: February - September		0										
40	Net Export Change, not including S III.		818										
41	Section 3 water released		0										
42	Section 3 water exported		0										
43	Section 3 Export cuts		0										
44	Gross Upstream fish actions		0										
45	Gross Export fish actions		1011										
46	Gross Fish Actions		1011										
47	Net Feb - Sep Export reduction		368										
48	Total b(2) Spent		818										
49	Export cuts beyond WQCP		1011										
50	Unused												
51	Unused												
52	Unused												
53	Unused												
54	Unused												
55	Unused												

	U	V	W	X	Y	Z	AA	AB	AC	AD
28	EWA Accounting						EWA	SWP	CVP	
29	Upstream Releases						0			
30	Water Backed upstream						0			
31	Total Export Cuts made						302			
32	Export Supplies Generated						814			
33		E/I					0			
34		500 cfs					45			
35		JPOD: Excess flows					160			
36		JPOD: EWA storage					0			
37		Transfer NOD Purchases					0			
38		Net Spill					609			
39		SOD Purchase					0			
40		SWP Gain					0			
41										
42		NOD Water Purchases					0			
43		EWA EOY Balance in CVP SLR					0			
44		EWA EOY Balance in SWP SLR					0			
45		EWA EOY Balance in MWD					0			
46		Vidler					170			
47		EWA in Shasta					0			
48		EWA in Folsom					0			
49		EWA in Oroville					0			
50										
51	Use of Excess Banks Capacity for excess flows									
52		Net new pumping allowed					1179			
53		If no debt or EWA storage					1050			
54		If no EWA or b(2).					700			
55	Unused									

September EWA spill improper. Water could have been stored in Federal side of SLR. Since SLR spills next year, though, not harm done. For purpose of game, went to CVP

All JPOD allowed + spills.

Only thing not allowed is JPOD above what needed to fill CVP side of SLR in April. W/o b(2) cuts, fed side fills by end of year.

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	CALFED GAME 4																			
2	Year	1984					CVP Accounting								EWA					
3															Upstream					Export
4			Upstream Balance						Export Balance						Upstream Balance					Cuts
5			Increas	AFRP	Increas	WQCP	Total	Net	Total	Increas	WQCP	Sectior	Sectior	Sectior	Increas	Reduced		CVP	SWP	Total
6			Releas	Reset	WQCP	Reset	WQCP	Upstre	Cuts	Pumping		Releas	Exports	Export	Releas	Releases		EWA	EWA	Cuts
7				(negative		(negative		Balance		(negative				Cuts		(negative		Export	Export	
8				Offset		Offset												Cuts	Cuts	
9				negative		Negative														
10	October						0	0									O			0
11	November						0	0									N			0
12	December						0	0									D			0
13	January					0	0	0									J			0
14	Oct - Jan Subt		0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0
15																				
16	February						0	0	0		18						F			0
17	March						0	0	120		27						M		90	90
18	April			(150)	154		154	4	150		44						A		164	164
19	May					(22)	(22)	(22)	150		(7)						M		117	117
20	June			(30)	103		103	73	30		(28)						J		147	147
21	July					(73)	(73)	(73)			37						J			0
22	August					(5)	(5)	(5)			98						A			0
23	September						0	0			5						S			0
24	Feb - Sep Sub		0	(180)	257	(100)	157	(23)	450	0	194	0	0	0	0	0		0	518	518
25																				
26	Totals		0	(180)	257	(100)	157	(23)	450	0	194	0	0	0	0	0		0	518	518
27																				
28	B(2) Accounting																			
29	Net WQCP Storage: Oct - January								0											
30	Net WQCP Flow Changes: February - September								157											
31	net WQCP Exports								194											
32	Total Net WQCP								351											
33	Net AFRP storage: Oct - January								0											
34	Net AFRP flow changes: February - September								(180)											
35	Net Discretionary export b(2) except Section III								450											
36	Upstream Release Reductions (Oct - Jan)								0											
37	Upstream Release Reductions (Feb - Sep)								(280)											
38	Net Upstream Storage Change (AFRP + WQCP)								0											
39	Net Upstream Release: February - September								(23)											
40	Net Export Change, not including S III.								644											
41	Section 3 water released								0											
42	Section 3 water exported								0											
43	Section 3 Export cuts								0											
44	Gross Upstream fish actions								157											
45	Gross Export fish actions								644											
46	Gross Fish Actions								801											
47	Net Feb - Sep Export reduction								644											
48	Total b(2) Spent								598											
49	Export cuts beyond WQCP								450											
50	Unused																			
51	Unused																			
52	Unused																			
53	Unused																			
54	Unused																			

	U	V	W	X	Y	Z	AA	AB	AC	AD
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)			split	Factors	&Cuts
8										
9										
10					10				10	10
11									0	0
12									0	0
13									0	0
14	0	0	0		10	0	0	0	10	10
15										
16									0	0
17									0	-90
18									0	-164
19							30		30	-87
20							30		30	-117
21		9					40		49	49
22		42							42	42
23		34							34	34
24	0	85	0		0	0	100	0	185	(333)
25										
26	0	85	0		10	0	100	0	195	(323)
27										
28	EWA Accounting						EWA	SWP	CVP	
29	Upstream Releases						0			
30	Water Backed upstream						0			
31	Total Export Cuts made						518			
32	Export Supplies Generated						195			
33		E/I					0			
34		500 cfs					85			
35		JPOD: Excess flows					0			
36		JPOD: EWA storage					0			
37		Transfer NOD Purchases					0			
38		Net Spill					10			
39		SOD Purchase					100			
40		SWP Gain					0			
41										
42		NOD Water Purchases					0			
43		EWA EOY Balance in CVP SLR					0			
44		EWA EOY Balance in SWP SLR					-333			
45		EWA EOY Balance in MWD					0			
46		Vidler					180			
47		EWA in Shasta					0			
48		EWA in Folsom					0			
49		EWA in Oroville					0			
50										
51	Use of Excess Banks Capacity for excess flows									
52		Net new pumping allowed					0			
53		If no debt or EWA storage					0			
54		If no EWA or b(2).					0			

	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
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%	50%	50%	Not split	
8	Initial															
9	values				170	170				0						
10	Octobe	160			180	340	170					0	0	0		
11	Novem	0			180	180	-160		0			0	0	0		
12	December				180	180	0		0			0	0	0		
13	January				180	180	0		0			0	0	0		
14												0	0	0		
15																
16	February				180	180	0		0			0	0	0		
17	March		-90		180	90	-90					0	0	0		
18	April		-254		180	-74	-164					0	0	0		
19	May		-341		180	-161	-87					0	0	0		
20	June		-458		180	-278	-117					0	0	0		
21	July		-409		180	-229	49					9	0	0		
22	August		-367		180	-187	42					42	0	0		
23	September		-333		180	-153	34					34	0	0		
24												85	0	0		
25																
26																
27																
28	DWRSIM/ Daily Model															
29				SWP	CVP											
30																
31																
32	SIM continuous Exports															
33	SIM yearly exports															
34	Daily Base Exports															
35	Daily Final Exports															
36	Change in Exports															
37	Final DWRSIM Exports															
38	CVP Delivery Cuts															
39																
40																
41																
42																
43																
44																
45																
46																
47																
48																
49																
50																
51																
52																
53																
54																

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
1	CALFED GAME 4																													
2	Year	1985					CVP Accounting								EWA								EWA Accounting							
3															Upstream					Export			Export Supply Factors							
4			Upstream Balance						Export Balance						Upstream Balance					Cuts										
5			Increa	AFRP	Increa	WQCF	Total	Net	Total	Increa	WQCF	Sectio	Sectio	Sectio	Increa	Reduced		CVP	SWP	Total	E/I	500 cf	JPOD	JPOD	Spill	NOD	SOD	SWP I	Sum	Sum
6			Releas	Reset	WQCF	Reset	WQCF	Upstre	Cuts	Pumping		Releas	Export	Export	Releas	Releases		EWA	EWA	Cuts			split	Not sp	Debt	XFER	XFER	Export	Export	factors
7				(negative		(negative		Balance		(negative				Cuts		(negative		Export	Export						(Storage)			split	Factor	&Cuts
8				Offset		Offset												Cuts	Cuts											
9				negative		Negative																								
10	October		108				0	108									O			0								47	47	47
11	November		18	(60)			0	(42)	90								N			0								4	4	4
12	December		18	(30)		(41)	(41)	(53)	90								D			0									0	0
13	January		168				0	168									J			0								49	49	49
14	Oct - Jan Sub		312	(90)	0	(41)	(41)	181	180	0	0	0	0	0	0	0		0	0	0	0	0	0	0	0	0	0	100	100	100
15																														
16	February			(37)	37		37	0	120								F			0	40				193				233	233
17	March					(12)	(12)	(12)	60		48						M		60	60									0	-60
18	April				16		16	16	0		142						A		182	182									0	-182
19	May					(114)	(114)	(114)	0		25						M		103	103							10		10	-93
20	June				45		45	45			9						J		42	42							10		10	-32
21	July					(14)	(14)	(14)			98						J			0		14					5		19	19
22	August					(103)	(103)	(103)			98						A			0		25							25	25
23	September						0	0			4						S			0		67							67	67
24	Feb - Sep Su		0	(37)	98	(243)	(145)	(182)	180	0	424	0	0	0	0	0		0	387	387	40	106	0		193	0	25	0	364	(23)
25																														
26	Totals		312	(127)	98	(284)	(186)	(1)	360	0	424	0	0	0	0	0		0	387	387	40	106	0		193	0	25	100	464	77
27																														
28	B(2) Accounting																													
29	Net WQCP Storage: Oct - January								(41)																					
30	Net WQCP Flow Changes: February - September								(145)																					
31	net WQCP Exports								424																					
32	Total Net WQCP								238																					
33	Net AFRP storage: Oct - January								222																					
34	Net AFRP flow changes: February - September								(37)																					
35	Net Discretionary export b(2) except Section III								360																					
36	Upstream Release Reductions (Oct - Jan)								(131)																					
37	Upstream Release Reductions (Feb - Sep)								(280)																					
38	Net Upstream Storage Change (AFRP + WQCP)								181																					
39	Net Upstream Release: February - September								(182)																					
40	Net Export Change, not including S III.								784																					
41	Section 3 water released								0																					
42	Section 3 water exported								0																					
43	Section 3 Export cuts								0																					
44	Gross Upstream fish actions								312																					
45	Gross Export fish actions								784																					
46	Gross Fish Actions								1096																					
47	Net Feb - Sep Export reduction								604																					
48	Total b(2) Spent								782																					
49	Export cuts beyond WQCP								360																					
50	Unused																													
51	Unused																													
52	Unused																													
53	Unused																													
54	Unused																													

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD
28																					EWA Accounting						EWA	SWP	CVP	
29																					Upstream Releases						0			
30																					Water Backed upstream						0			
31																					Total Export Cuts made						387			
32																					Export Supplies Generated						464			
33																						E/I					40			
34																						500 cfs					106			
35																						JPOD: Excess flows					0			
36																						JPOD: EWA storage					0			
37																						Transfer NOD Purchases					0			
38																						Net Spill					193			
39																						SOD Purchase					25			
40																						SWP Gain					100			
41																														
42																						NOD Water Purchases					0			
43																						EWA EOY Balance in CVP SLR					0			
44																						EWA EOY Balance in SWP SLR					-66			
45																						EWA EOY Balance in MWD					-90			
46																						Vidler					80			
47																						EWA in Shasta					0			
48																						EWA in Folsom					0			
49																						EWA in Oroville					0			
50																														
51																					Use of Excess Banks Capacity for excess flows									
52																						Net new pumping allowed					0			
53																						If no debt or EWA storage					0			
54																						If no EWA or b(2).					0			

	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
1																
2												Projects				
3				Storage												
4		Negative values for borrowed water														
5		SLR:C	SLR:S	MWD	Vidler	Sum	Chang	Shasta	Folsor	Oroville		SWP	SWP	CVP	CVP	
6						Export	Export	Storage				500cfs	Gain	JPOD	JPOD	
7						Storage						50%	50%	50%	Not split	
8	Initial															
9	values	-333			180	-153				0						
10	October	-286			180	-106	47					0	47	0		
11	November	-282			180	-102	4		0			0	4	0		
12	December	-282			180	-102	0		0			0	0	0		
13	January	-233			180	-53	49		0			0	49	0		
14												0	100	0		
15																
16	February	0			180	180	233		0			0	0	0		
17	March	-60			180	120	-60					0	0	0		
18	April	-242			180	-62	-182					0	0	0		
19	May	-285	-30	160		-155	-93					0	0	0		
20	June	-267	-60	140		-187	-32			30		0	0	0		
21	July	-198	-90	120		-168	19					14	0	0		
22	August	-153	-90	100		-143	25					25	0	0		
23	September	-66	-90	80		-76	67			0		67	0	0		
24												106	0	0		
25																
26																
27																
28	DWRSIM/ Daily Model															
29				SWP	CVP											
30																
31																
32	SIM continuous Exports															
33	SIM yearly exports															
34	Daily Base Exports															
35	Daily Final Exports															
36	Change in Exports															
37	Final DWRSIM Exports															
38	CVP Delivery Cuts															
39																
40																
41																
42																
43																
44																
45																
46																
47																
48																
49																
50																
51																
52																
53																
54																

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	CALFED GAME 4																			
2	Year	1986					CVP Accounting								EWA					
3															Upstream					Export
4			Upstream Balance						Export Balance						Upstream Balance					Cuts
5			Increa	AFRP	Increa	WQCF	Total	Net	Total	Increa	WQCF	Sectio	Sectio	Sectio	Increa	Reduced		CVP	SWP	Total
6			Releas	Reset	WQCF	Reset	WQCF	Upstre	Cuts	Pumping		Releas	Export	Export	Releas	Releases		EWA	EWA	Cuts
7				(negative		(negative		Balance		(negative				Cuts		(negative		Export	Export	
8				Offset		Offset												Cuts	Cuts	
9				negative		Negative														
10	October		9	(30)		(20)	(20)	(41)	19								O			0
11	November		39				0	39		(35)	(6)						N			0
12	December		39				0	39	180								D		30	30
13	January		39				0	39	100								J		15	15
14	Oct - Jan Sub		126	(30)	0	(20)	(20)	76	299	(35)	(6)	0	0	0	0	0		0	45	45
15																				
16	February					(20)	(20)	(20)	125								F		150	150
17	March						0	0	205		36						M		-100	100
18	April						0	0	25	(87)	31						A		85	85
19	May						0	0	25		31						M		225	225
20	June			(120)			0	(120)	10		(23)						J		68	68
21	July						0	0			124						J			0
22	August						0	0			0	55	45				A			0
23	September						0	0			5	55	45				S			0
24	Feb - Sep Su		0	(120)	0	(20)	(20)	(140)	390	(87)	204	110	90	0	0	0		0	428	428
25																				
26	Totals		126	(150)	0	(40)	(40)	(64)	689	(122)	198	110	90	0	0	0		0	473	473
27																				
28	B(2) Accounting																			
29	Net WQCP Storage: Oct - January								(20)											
30	Net WQCP Flow Changes: February - September								(20)											
31	net WQCP Exports								198											
32	Total Net WQCP								158											
33	Net AFRP storage: Oct - January								96											
34	Net AFRP flow changes: February - September								(120)											
35	Net Discretionary export b(2) except Section III								567											
36	Upstream Release Reductions (Oct - Jan)								(50)											
37	Upstream Release Reductions (Feb - Sep)								(140)											
38	Net Upstream Storage Change (AFRP + WQCP)								76											
39	Net Upstream Release: February - September								(140)											
40	Net Export Change, not including S III.								765											
41	Section 3 water released								110											
42	Section 3 water exported								90											
43	Section 3 Export cuts								0											
44	Gross Upstream fish actions								126											
45	Gross Export fish actions								887											
46	Gross Fish Actions								1013											
47	Net Feb - Sep Export reduction								507											
48	Total b(2) Spent								747											
49	Export cuts beyond WQCP								689											
50	Unused																			
51	Unused																			
52	Unused																			
53	Unused																			
54	Unused																			

	U	V	W	X	Y	Z	AA	AB	AC	AD
1										
2			EWA Accounting							
3			Export Supply Factors							
4										
5	E/I	500 cf	JPOD	JPOD	Spill	NOD	SOD	SWP I	Sum	Sum
6			split	Not sp	Debt	XFER	XFER	Export	Export	factors
7					(Storage)			split	Factor	&Cuts
8										
9										
10									0	0
11	20								20	20
12									0	-30
13									0	-15
14	20	0	0	0	0	0	0	0	20	(25)
15										
16									0	-150
17									0	100
18									0	-85
19							30		30	-195
20						30	30		60	-8
21						30	40		70	70
22	41					40			81	81
23	28								28	28
24	69	0	0		0	100	100	0	269	(159)
25										
26	89	0	0		0	100	100	0	289	(184)
27										
28	EWA Accounting						EWA	SWP	CVP	
29	Upstream Releases						0			
30	Water Backed upstream						0			
31	Total Export Cuts made						473			
32	Export Supplies Generated						289			
33	E/I						89			
34	500 cfs						0			
35	JPOD: Excess flows						0			
36	JPOD: EWA storage						0			
37	Transfer NOD Purchases						100			
38	Net Spill						0			
39	SOD Purchase						100			
40	SWP Gain						0			
41										
42	NOD Water Purchases						100			
43	EWA EOY Balance in CVP SLR						90			
44	EWA EOY Balance in SWP SLR						-439			
45	EWA EOY Balance in MWD						0			
46	Vidler						80			
47	EWA in Shasta						0			
48	EWA in Folsom						0			
49	EWA in Oroville						0			
50										
51	Use of Excess Banks Capacity for excess flows									
52	Net new pumping allowed						0			
53	If no debt or EWA storage						0			
54	If no EWA or b(2).						0			

	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
1																
2												Projects				
3				Storage												
4		Negative values for borrowed water														
5		SLR:C	SLR:S	MWD	Vidler	Sum	Chang	Shasta	Folsor	Orovill	Yuba	SWP	SWP	CVP	CVP	
6						Export	Export	Storage				500cfs	Gain	JPOD	JPOD	
7						Storage						50%	50%	50%	Not split	
8	Initial															
9	values		-66	-90	80	-76				0						
10	October		-96	-60	80	-76	0					0	0	0		
11	November		-106	-30	80	-56	20		0			0	0	0		
12	December		-166	0	80	-86	-30		0			0	0	0		
13	January		-181	0	80	-101	-15		0			0	0	0		
14												0	0	0		
15																
16	February		-331	0	80	-251	-150		0			0	0	0		
17	March		-231	0	80	-151	100					0	0	0		
18	April		-315	0	80	-235	-84					0	0	0		
19	May		-510	0	80	-430	-195					0	0	0		
20	June		-548	0	80	-468	-38				30	0	0	0		
21	July		-508	0	80	-428	40				60	0	0	0		
22	Augus	45	-467	0	80	-342	86				100	0	0	0		
23	Septe	90	-439	0	80	-269	73			0	100	0	0	0		
24												0	0	0		
25																
26																
27																
28	DWRSIM/ Daily Model															
29				SWP	CVP											
30																
31																
32	SIM continuous Exports															
33	SIM yearly exports															
34	Daily Base Exports															
35	Daily Final Exports															
36	Change in Exports															
37	Final DWRSIM Exports															
38	CVP Delivery Cuts															
39																
40																
41																
42																
43																
44																
45																
46																
47																
48																
49																
50																
51																
52																
53																
54																

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	CALFED GAME 4																			
2	Year	1987					CVP Accounting								EWA					
3															Upstream					Export
4			Upstream Balance						Export Balance						Upstream Balance					Cuts
5			Increas	AFRP	Increas	WQCP	Total	Net	Total	Increas	WQCP	Section	Section	Section	Increas	Reduced		CVP	SWP	Total
6			Releas	Reset	WQCP	Reset	WQCP	Upstrea	Cuts	Pumping		Releas	Exports	Export	Releas	Releases		EWA	EWA	Cuts
7				(negative		(negative		Balance		(negative				Cuts		(negative		Export	Export	
8				Offset		Offset												Cuts	Cuts	
9				negative		Negative														
10	October		120			(12)	(12)	108			31						O			0
11	November		60			(23)	(23)	37									N			0
12	December		90	(30)	28		28	88	43								D			0
13	January		60	(48)		(179)	(179)	(167)									J			0
14	Oct - Jan Subt		330	(78)	28	(214)	(186)	66	43	0	31	0	0	0	0	0		0	0	0
15																				
16	February						0	0	0		1						F			0
17	March					(35)	(35)	(35)	150		0						M			0
18	April		60	(90)	130		130	100	75		139						A		33	33
19	May		60			(20)	(20)	40	25		74						M			0
20	June			(135)	236		236	101	135		(21)						J		53	53
21	July					(4)	(4)	(4)			60						J			0
22	August					(119)	(119)	(119)	(130)		98			-90			A		40	40
23	September					(40)	(40)	(40)			9						S			0
24	Feb - Sep Subt		120	(225)	366	(218)	148	43	255	0	360	0	0	(90)	0	0		0	126	126
25																				
26	Totals		450	(303)	394	(432)	(38)	109	298	0	391	0	0	(90)	0	0		0	126	126
27																				
28	B(2) Accounting																			
29	Net WQCP Storage: Oct - January								(186)											
30	Net WQCP Flow Changes: February - September								148											
31	net WQCP Exports								391											
32	Total Net WQCP								353											
33	Net AFRP storage: Oct - January								252											
34	Net AFRP flow changes: February - September								(105)											
35	Net Discretionary export b(2) except Section III								298											
36	Upstream Release Reductions (Oct - Jan)								(292)											
37	Upstream Release Reductions (Feb - Sep)								(443)											
38	Net Upstream Storage Change (AFRP + WQCP)								66											
39	Net Upstream Release: February - September								43											
40	Net Export Change, not including S III.								689											
41	Section 3 water released								0											
42	Section 3 water exported								0											
43	Section 3 Export cuts								(90)											
44	Gross Upstream fish actions								450											
45	Gross Export fish actions								599											
46	Gross Fish Actions								1049											
47	Net Feb - Sep Export reduction								615											
48	Total b(2) Spent								907											
49	Export cuts beyond WQCP								208											
50	Unused																			
51	Unused																			
52	Unused																			
53	Unused																			
54	Unused																			

1987 ok -- gave 90 kaf of section III water from SLR to CVP
plus covered 40 more with ewa in august

	U	V	W	X	Y	Z	AA	AB	AC	AD
1										
2			EWA Accounting							
3			Export Supply Factors							
4										
5	E/I	500 cfs	JPOD	JPOD	Spill	NOD	SOD	SWP B	Sum	Sum
6			split	Not spl	Debt	XFER	XFER	Exports	Export	factors
7					(Storage)			split	Factors	&Cuts
8										
9										
10						19		37	56	56
11						27		29	56	56
12						20		29	49	49
13								26	26	26
14	0	0	0	0	0	66	0	121	187	187
15										
16									0	0
17									0	0
18									0	-33
19							10		10	10
20							10		10	-43
21		15					5		20	20
22						25			25	-15
23				125					125	125
24	0	15	0	125	0	25	25	0	190	64
25										
26	0	15	0	125	0	91	25	121	377	251
27										
28	EWA Accounting						EWA	SWP	CVP	
29	Upstream Releases						0			
30	Water Backed upstream						0			
31	Total Export Cuts made						126			
32	Export Supplies Generated						377			
33	E/I						0			
34	500 cfs						15			
35	JPOD: Excess flows						0			
36	JPOD: EWA storage						125			
37	Transfer NOD Purchases						91			
38	Net Spill						0			
39	SOD Purchase						25			
40	SWP Gain						121			
41										
42	NOD Water Purchases						91			
43	EWA EOY Balance in CVP SLR						0			
44	EWA EOY Balance in SWP SLR						-188			
45	EWA EOY Balance in MWD						0			
46	Vidler						80			
47	EWA in Shasta						0			
48	EWA in Folsom						0			
49	EWA in Oroville						0			
50										
51	Use of Excess Banks Capacity for excess flows									
52	Net new pumping allowed						0			
53	If no debt or EWA storage						0			
54	If no EWA or b(2).						0			

	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
1																
2												Projects				
3				Storage												
4		Negative values for borrowed water														
5		SLR:C\	SLR:S\	MWD	Vidler	Sum	Chang	Shasta	Folsom	Oroville	Yuba	SWP S	SWP	CVP	CVP	
6						Export	Export	Storage				500cfs	Gain	JPOD	JPOD	
7						Storage						50%	50%	50%	Not split	
8	Initial															
9	values	90	-439	0	80	-269				0	100					
10	Octobe	90	-383	0	80	-213	56				67	0	37	0		
11	Novem	90	-327	0	80	-157	56		0		33	0	29	0		
12	Decem	90	-278	0	80	-108	49		0		0	0	29	0		
13	Januar	90	-252	0	80	-82	26		0			0	26	0		
14												0	121	0		
15																
16	Februa	90	-252	0	80	-82	0		0			0	0	0		
17	March	90	-252	0	80	-82	0			75		0	0	0		
18	April	90	-285	0	80	-115	-33			75		0	0	0		
19	May	90	-275	0	80	-105	10			75		0	0	0		
20	June	90	-318	0	80	-148	-43	53		75		0	0	0		
21	July	90	-298	0	80	-128	20	53		75		15	0	0		
22	August	0	-313	0	80	-233	-105	53		75		0	0	0		
23	Septem	0	-188	0	80	-108	125	0		0		0	0	0		
24												15	0	0		
25																
26												15	121	0		
27																
28	DWRSIM/ Daily Model															
29				SWP	CVP											
30																
31																
32	SIM continuous Exports															
33	SIM yearly exports															
34	Daily Base Exports															
35	Daily Final Exports															
36	Change in Exports															
37	Final DWRSIM Exports															
38	CVP Delivery Cuts															
39																
40																
41																
42																
43																
44																
45																
46																
47																
48																
49																
50																
51																
52																
53																
54																

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	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
1	CALFED GAME 4																			
2	Year	1988					CVP Accounting								EWA					
3															Upstream					Export
4			Upstream Balance						Export Balance						Upstream Balance					Cuts
5			Increas	AFRP	Increas	WQCP	Total	Net	Total	Increas	WQCP	Sectior	Sectior	Sectior	Increas	Reduced		CVP	SWP	Total
6			Releas	Reset	WQCP	Reset	WQCP	Upstre	Cuts	Pumping		Releas	Exports	Export	Releas	Releases		EWA	EWA	Cuts
7				(negative		(negative		Balance		(negative				Cuts		(negative		Export	Export	
8				Offset		Offset												Cuts	Cuts	
9				negative		Negative														
10	October			(60)	20		20	(40)	55								O			0
11	November		24		5		5	29		21	(12)						N			0
12	December		96			(47)	(47)	49	92	5							D		125	125
13	January		36			(44)	(44)	(8)	124								J			0
14	Oct - Jan Subt		156	(60)	25	(91)	(66)	30	271	26	(12)	0	0	0	0	0		0	125	125
15																				
16	February				126		126	126	0		141						F			0
17	March			(45)	70		70	25	45		107						M		35	35
18	April					(337)	(337)	(337)			228						A		22	22
19	May				78		78	78			40						M		14	14
20	June			(67)	262		262	195	67		(90)						J			0
21	July				10		10	10	(43)		13						J		43	43
22	August				55		55	55			(116)						A			0
23	September					(44)	(44)	(44)			26						S			0
24	Feb - Sep Subt		0	(112)	601	(381)	220	108	69	0	349	0	0	0	0	0		0	114	114
25																				
26	Totals		156	(172)	626	(472)	154	138	340	26	337	0	0	0	0	0		0	239	239
27																				
28	B(2) Accounting																			
29	Net WQCP Storage: Oct - January								(66)											
30	Net WQCP Flow Changes: February - September								220											
31	net WQCP Exports								337											
32	Total Net WQCP								491		Above cap of 450									
33	Net AFRP storage: Oct - January								96											
34	Net AFRP flow changes: February - September								(112)											
35	Net Discretionary export b(2) except Section III								366											
36	Upstream Release Reductions (Oct - Jan)								(151)											
37	Upstream Release Reductions (Feb - Sep)								(493)											
38	Net Upstream Storage Change (AFRP + WQCP)								30											
39	Net Upstream Release: February - September								108											
40	Net Export Change, not including S III.								703											
41	Section 3 water released								0											
42	Section 3 water exported								0											
43	Section 3 Export cuts								0											
44	Gross Upstream fish actions								310											
45	Gross Export fish actions								677											
46	Gross Fish Actions								987											
47	Net Feb - Sep Export reduction								418											
48	Total b(2) Spent								979		Not over cap due to subsidy from ewa.									
49	Export cuts beyond WQCP								340											
50	Unused																			
51	Unused																			
52	Unused																			
53	Unused																			
54	Unused																			

	U	V	W	X	Y	Z	AA	AB	AC	AD
2			EWA Accounting							
3			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)			split	Factors	&Cuts
10									0	0
11									0	0
12	32								32	93
13									0	0
14	32	0	0		0	0	0	0	32	(93)
16									0	0
17									0	35
18									0	22
19									0	14
20									0	0
21	24					72			96	53
22									0	0
23									0	0
24	24	0	0		0	72	0	0	96	(18)
26	56	0	0		0	72	0	0	128	(111)

	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
2												Projects				
4		Negative values for borrowed water														
5		SLR:C\	SLR:S\	MWD	Vidler	Sum	Change	Shasta	Folsom	Oroville	Yuba	SWP S	SWP	CVP	CVP	
6						Export	Export	Storage				500cfs	Gain	JPOD	JPOD	
7						Storage						50%	50%	50%	Not split	
8	Initial															
9	values	0	-188	0	80	-108				0						
10	Octobe	0	-188	0	80	-108	0					0	0	0		
11	Novem	0	-188	0	80	-108	0		0			0	0	0		
12	Decem	0	-281	0	80	-201	-93		0			0	0	0		
13	Januar	0	-281	0	80	-201	0		0			0	0	0		
14												0	0	0		
16	Februa	0	-281	0	80	-201	0		0			0	0	0		
17	March	0	-316	0	80	-236	-35	35				0	0	0		
18	April	0	-338	0	80	-258	-22	57				0	0	0		
19	May	0	-332	0	60	-272	-14	71				0	0	0		
20	June	0	-312	0	40	-272	0					0	0	0		
21	July	0	-239	0	20	-219	53	0				0	0	0		
22	August	0	-219	0	0	-219	0					0	0	0		
23	Septem	0	-219	0	0	-219	0					0	0	0		
24												0	0	0		
26												0	0	0		

	U	V	W	X	Y	Z	AA	AB	AC	AD
28	EWA Accounting						EWA	SWP	CVP	
29	Upstream Releases						0			
30	Water Backed upstream						0			
31	Total Export Cuts made						239			
32	Export Supplies Generated						128			
33	E/I						56			
34	500 cfs						0			
35	JPOD: Excess flows						0			
36	JPOD: EWA storage						0			
37	Transfer NOD Purchases						72			
38	Net Spill						0			
39	SOD Purchase						0			
40	SWP Gain						0			
41										
42	NOD Water Purchases						72			
43	EWA EOY Balance in CVP SLR						0			
44	EWA EOY Balance in SWP SLR						-219			
45	EWA EOY Balance in MWD						0			
46	Vidler						0			
47	EWA in Shasta						0			
48	EWA in Folsom						0			
49	EWA in Oroville						0			
50										
51	Use of Excess Banks Capacity for excess flows									
52	Net new pumping allowed						0			
53	If no debt or EWA storage						0			
54	If no EWA or b(2).						0			

	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT
28	DWRSIM/ Daily Model															
29				SWP	CVP											
32	SIM continuous Exports															
33	SIM yearly exports															
34	Daily Base Exports															
35	Daily Final Exports															
36	Change in Exports															
37	Final DWRSIM Exports															
38	CVP Delivery Cuts															

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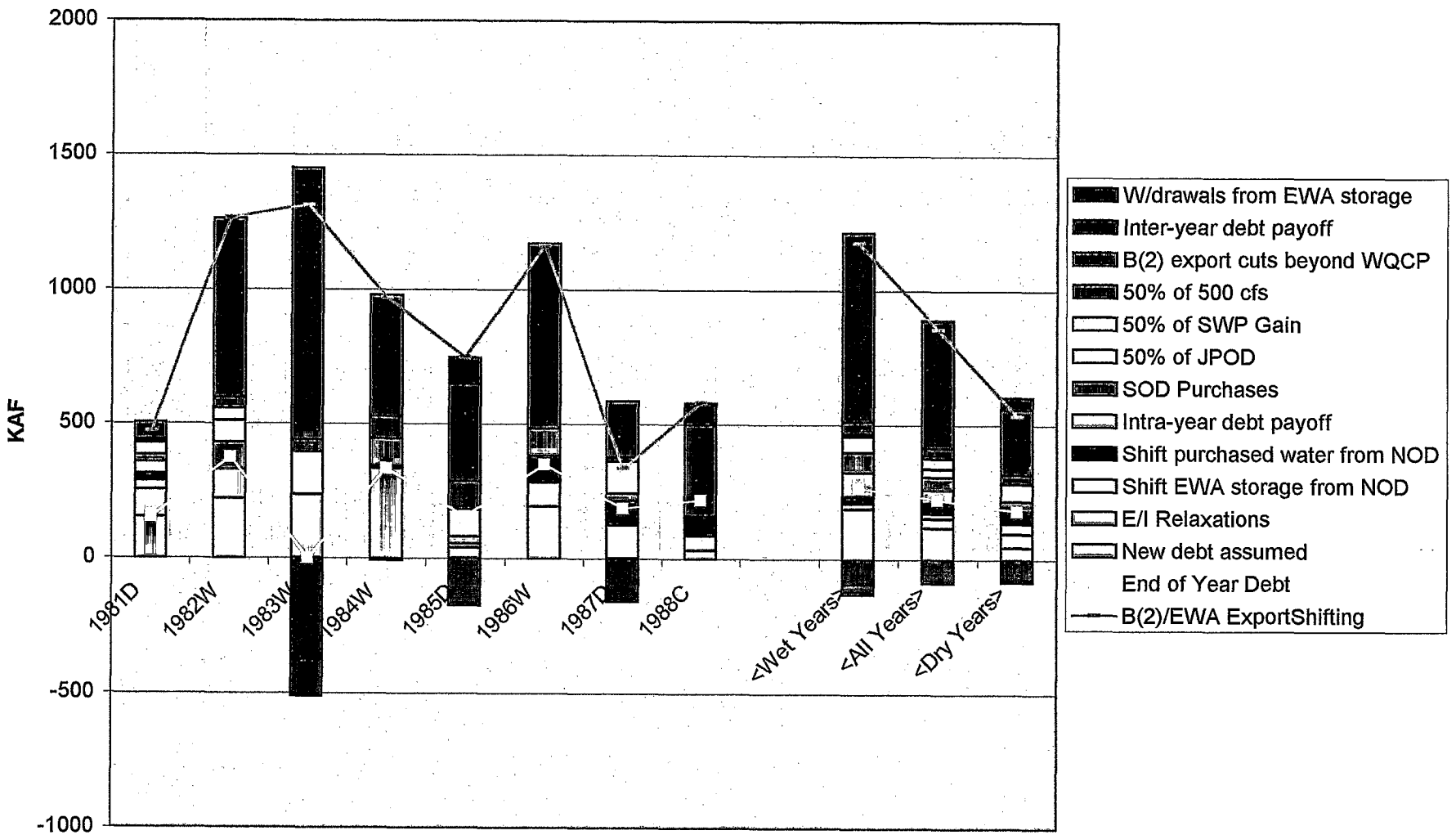
Operations in Support of EWA Export Shifts
Game 4



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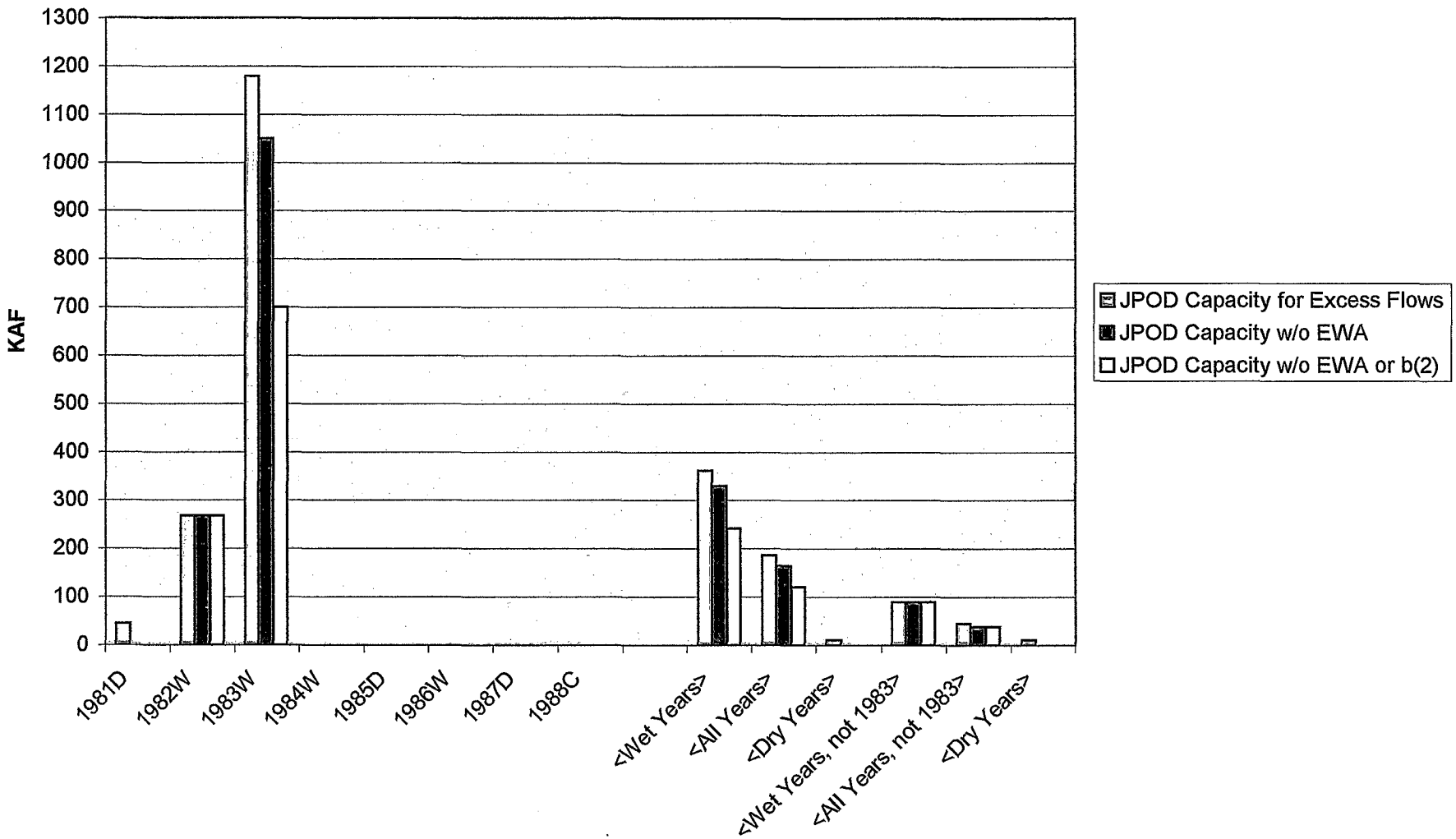
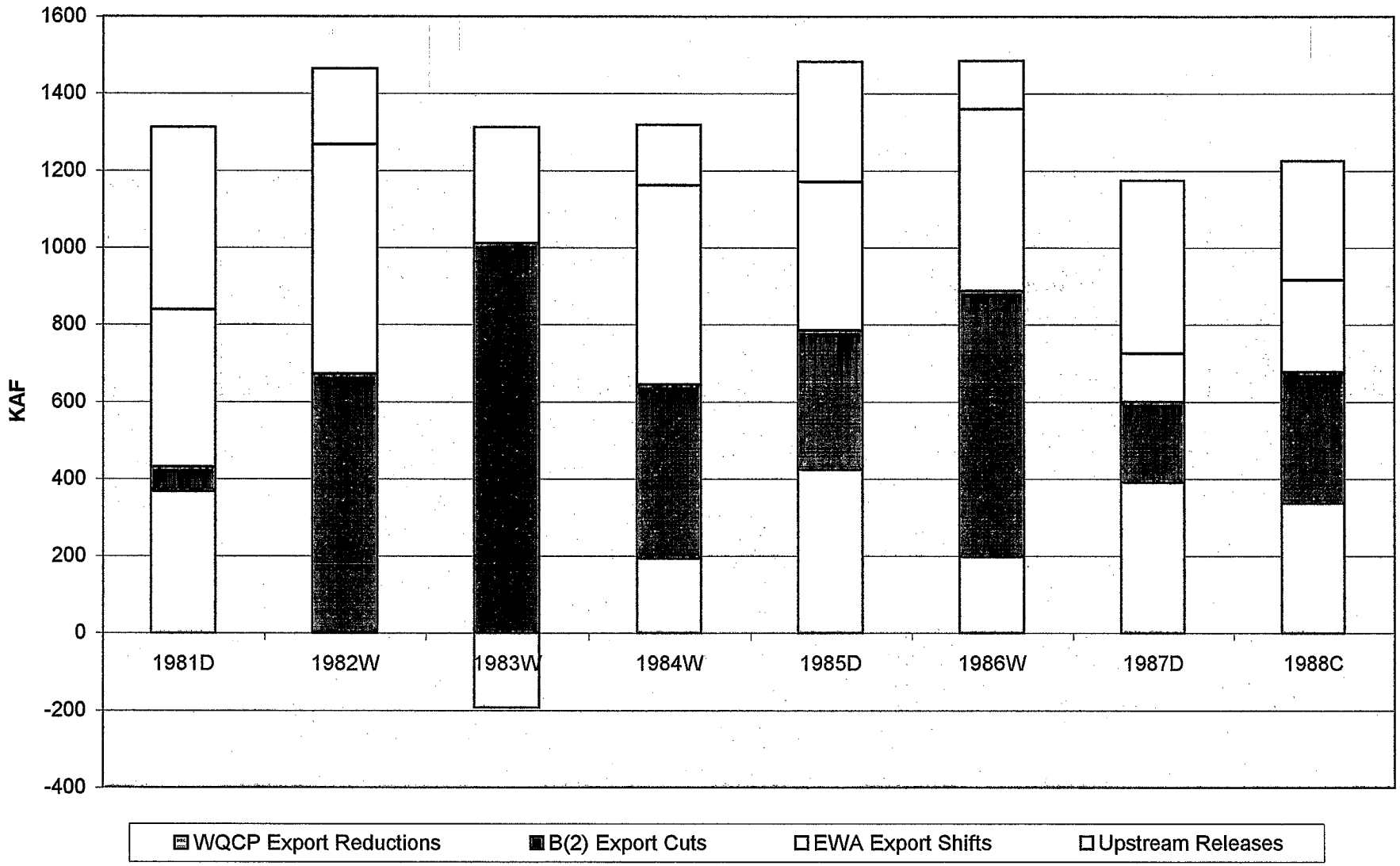
Total Excess Export Capacity for Excess Flows
CALFED Game 4



Operational Shifting for Fish: Game 4



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Analysis
Game 4
36647

	1981D	1982W	1983W	1984W	1985D	1986W	1987D	1988C	<Wet Y	<All Ye	<Dry Y	W/O 1983 <Wet Y	<All Ye	<Dry Years>
B(2) Accounting														
Net WQCP Storage: Oct - January	-46	0	0	0	-41	-20	-186	-66	-5	-45	-85			
Net WQCP Flow Changes: February - Sept	10	0	0	157	-145	-20	148	220	34	46	58			
WQCP Exports	367	5	-193	194	424	198	391	337	51	215	380			
Total Net WQCP	331	5	-193	351	238	158	353	491	80	217	353			
Net AFRP storage: Oct - January	456	137	0	0	222	96	252	96	58	157	257			
Net AFRP flow changes: February - Septen	0	0	0	-180	-37	-120	-105	-112	-75	-69	-64			
Net Discretionary export b(2) except Sectio	18	666	1011	450	360	567	298	366	674	467	261			
Upstream Release Reductions (Oct - Jan)	-84	-80	0	0	-131	-50	-292	-151	-33	-99	-165			
Upstream Release Reductions (Feb - Sep)	-220	0	0	-280	-280	-140	-443	-493	-105	-232	-359			
Net Upstream Storage Change (AFRP + W	410	137	0	0	181	76	66	30	53	112	172			
Net Upstream Release: February - Septem	10	0	0	-23	-182	-140	43	108	-41	-23	-5			
Net Export Change, not including S III.	385	671	818	644	784	765	689	703	725	682	640			
Section 3 water released	*0*	*0*	*0*	*0*	*0*	*110*	*0*	*0*	*28*	*14*	*0*			
Section 3 water exported	0	0	0	0	0	90	0	0	23	13	0			
Section 3 Export cuts	0	0	0	0	0	0	-90	0	0	-11	-23			
Gross Upstream fish actions	474	197	0	157	312	126	450	310	120	253	387			
Gross Export fish actions	430	671	1011	644	784	887	599	677	803	713	623			
Gross Fish Actions	904	868	1011	801	1096	1013	1049	987	923	966	1009			
Net Feb - Sep Export reduction	322	565	368	644	604	507	615	418	521	505	490			
Total b(2) Spent	1225	944	818	598	782	747	907	979	777	875	973			
Export cuts beyond WQCP	63	666	1011	450	360	689	208	340	704	473	243			
EWA Accounting														
Upstream Releases	0	0	0	0	0	0	0	0	0	0	0			
Water Backed upstream	0	0	0	0	0	0	0	0	0	0	0			
Total Export Cuts made	408	597	302	518	387	473	126	239	473	381	290	529	393	290
Export Supplies Generated for EWA	287	375	814	195	464	289	377	128	418	366	314	286	302	314
E/I	100	0	0	0	40	89	0	56	22	36	49	30	41	49
500 cfs	13	40	45	85	106	0	15	0	43	38	34	42	37	34
JPOD: Excess flows	0	80	160	0	0	0	0	0	60	30	0	27	11	0
JPOD: Transfer NOD storag	34	0	0	0	0	0	125	0	0	20	40	0	23	40
Transfer NOD Purchases	25	0	0	0	0	100	91	72	25	36	47	33	41	47
Net Spill	45	108	609	10	193	0	0	0	182	121	60	39	51	60
SOD Purchase	25	100	0	100	25	100	25	0	75	47	19	100	54	19
SWP Gain	45	47	0	0	100	0	121	0	12	39	67	16	45	67
	0	0	0	0	0	0	0	0	0	0	0	0	0	0
NOD Water Purchases	25	0	0	0	0	100	91	72	25	36	47			
EWA EOY Balance in CVP S	2	0	0	0	0	90	0	0	23	12	1			
EWA EOY Balance in SWP	-65	-374	0	-333	-66	-439	-188	-219	-287	-211	-135			
EWA EOY Balance in MWD	-90	0	0	0	-90	0	0	0	0	-23	-45			
Net debt SOD	153	374	0	333	156	349	188	219	264	222	179			
Net Change in Debt	153	221	-374	333	-177	193	-161	31	93	27	-39			
New debt Assumed	153	221	0	333	0	193	0	31	187	116	46			
Inter-year debt payoff	0	0	-374	0	-177	0	-161	0	-94	-89	-85			
Intra-year debt payoff	45	108	235	10	16	0	0	0	88	52	15			
Vidler	30	30	170	180	80	80	80	0	115	81	48			
W/drawals from EWA storag	0	0	-140	-10	100	0	0	80	-38	4	45			
EWA in Shasta	0	0	0	0	0	0	0	0	0	0	0			
EWA in Folsom	-180	0	0	0	0	0	0	0	0	-23	-45			
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			
Use of Excess Banks Capacity for excess f	0	0	0	0	0	0	0	0	0	0	0		w/o 1983	
Net new pumping allowed	45	268	1179	0	0	0	0	0	362	187	11	89	45	11
If no debt or EWA storage	0	268	1050	0	0	0	0	0	330	165	0	89	38	0
If no EWA or b(2).	0	268	700	0	0	0	0	0	242	121	0	89	38	0
Total b(2) and EWA discretionary	471	1263	1313	968	747	1162	334	579	1177	855	533	1131	789	533