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Sent: Wednesday, July 29, 2015 9:43 PM

To: Grober, Les@Waterboards; Bartolomeo, Eleanor@Waterboards; Riddle, Diane@Waterboards

Cc: ekiteck@usbr.gov; Chu, Andy@DWR; Pettit, Tracy@DWR

Subject: Monthly Water Balance Information

Les

Attached is the Monthly Water Balance information for July 2015. This includes projected hydrology for the current year and 2015 observed conditions February through June. The projected data is based on project operation forecasts and information prepared in July..

We did not complete a 99% exceedence forecast for July and the data shown is a carryover from the June water balance information, These forecasts include an assumed 160 TAF of water transfers from the Sacramento River diverters that was distributed over the months of May, June, and July.

I have also included a copy of a 90% and 50% exceedence forecast summary prepared by the Central Valley Operations Office in July and the corresponding input data on a separate Excel spreadsheet for your use.

Thanks,
Paul

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(916) 979-2197

Observed 2015 Hydrological Data

Accretions / Depletions

Values in TAF

Sacramento Valley

Net Delta Consumptive Use

February	March	April	May	June	July	August	September
714	188	55	262	292			
24	70	41	148	211			

Deliveries

Values in TAF

SWP - North of Delta M&I Contract Deliveries

SWP - North of Delta Agricultural Contract Deliveries

SWP - South of Delta Sontract Deliveries

CVP - Sacramento River Deliveries

CVP - Tehama-Colusa Canal Deliveries

CVP - Contra Costa Canal

CVP - San Joaquin and Mendota Pool

CVP - Exchange Contractors - Pool Delivery

CVP - Refuges - Pool Delivery

CVP - Delta Mendota Canal Delivery

CVP - Refuges - DMC

CVP - San Luis Canal Delivery

CVP - San Felipe Division

CVP - Friant Kern Canal Delivery

CVP - Madera Canal Delivery

CVP - Millerton Lake Delivery

CVP - Folsom South Canal

CVP - Folsom Pumping Plant

Coordinated Operations Account Monthly Balance(4)

February	March	April	May	June	July	August	September
0	0	0	3.4	3			
0	12	23	115	110			
39	66	76	93	109			
NA	NA	77	253	245			
1.3	6	11	18	17			
2	15 est.	7	4	5			
3	3	2	5	13			
18	36	26	36	68			
15	3	2	1	<1			
2	6	7	15	27			
1	1	1	<1	1			
12	17	25	35	48			
3	4	7	8	8			
1	5	6	9	16			
<1	<1	<1	<1	3			
<1	<1	<1	<1	<1			
1	1	1	2	2			
3	5	6	6	8			
6	-8	-28	-83	-35			

Delta Flows

Delta Inflow at Freeport (cfs)

Net Delta Outflow Index (cfs)

SJR at Vernalis Flow (cfs)

CVP Export (TAF)

SWP Export (TAF)

February	March	April	May	June	July	August	September
18,000	8042	6281	7088	6685			
15,800	4980	5360	5165	3849			
870	636	845	399	192			
58	120	63	30	26			
221	71	30	24	18			

Transfers (5)

Values in TAF

NOD to SOD

February	March	April	May	June	July	August	September

Reservoir Inflow

Values in TAF

Trinity

Whiskeytown

Shasta

Folsom

New Melones

Oroville

February	March	April	May	June	July	August	September
289	66	55	39	18			
63	9	7	4	1			
720	262	221	185	164			
168	65	50	52	52			
55	19	17	24	19			
338	123	83	56	67			

Reservoir Releases

Values in TAF

Trinity

Whiskeytown

Shasta

Folsom

New Melones

Oroville

Carr Powerplant Release

February	March	April	May	June	July	August	September
15	20	59	195	107			
62	14	12	20	62			
106	180	240	434	358			
51	56	43	91	147			
12	69	77	59	67			
53	50	74	165	137			
1	3	37	21	62			

Reservoir End of Month Storage

Values in TAF

Trinity

Whiskeytown

Shasta

Folsom

New Melones

Oroville

February	March	April	May	June	July	August	September
1147	1191	1184	1024	930			
207	205	236	239	238			
2613	2689	2662	2404	2198			
564	572	576	535	438			
606	554	491	453	401			
1736	1794	1782	1565	1395			

- Notes: 1. CVP Sacramento River Deliveries not reported November through March
 2. CVP deliveries represent total turnout delivery regardless of source
 3. Additional details on CVP deliveries may be found at <http://www.usbr.gov/mp/cvo/deliv.html>
 4. Positive COA represents account in Reclamation favor, numbers not adjusted for transfers or non-project
 5. Observed water transfer accounting data is not available at this time.

Water program transfer data may be found at the following link:

<http://www.water.ca.gov/watertransfers/activity.cfm>

90% Exceedence Forecast - Input Data

Inflows (TAF)

	Trinity	Whiskeytown	Shasta	Folsom	New Melones (1)	Oroville	Millerton	
Oct	9		2	200	50	11	74	11
Nov	14		2	230	50	10	83	11
Dec	22		4	260	60	11	100	15
2016 Jan								
Feb								
Mar								
Apr								
May								
Jun								
2015 Jul	7		2	116	45	21	63	67
Aug	4		1	112	46	17	76	76
Sep	2		1	109	37	17	69	65

River Releases

	Trinity (cfs)	Clear Creek (cfs)	Goodwin (cfs)	Oroville (cfs)
Oct	373	175		577
Nov	300	175		200
Dec	300	175		206
2016 Jan				
Feb				
Mar				
Apr				
May				
Jun				
2015 Jul	450	120		150
Aug	450	85		150
Sep	450	150		150

Hydrology

	Wilkin's Target (cfs)	Kes-Wilkin's Acc/Dep (cfs)	SJR Above Stan (TAF)	Sac Gross Acc/Dep (TAF)	Freeport Treatment Plant (TAF)	East Side Streams (cfs)	Misc. Creeks (TAF)	Yolo Bypass (TAF)	Transfer Inflow (TAF)	Delta Consumptive Use (TAF)	Delta Outflow (TAF)	X-Channel Gate
Oct	3500	-750	34	40	13.3	210	29	0	0	-118	258	0
Nov	3500	-68	34	90	14	260	19	0	0	-55	303	0
Dec	3500	785	33	160	13.2	160	11.1	0	0	-2	307	1
2016 Jan												
Feb												
Mar												
Apr												
May												
Jun												
2015 Jul	2000	-4833	9	-370	12.3	120	2	0	0	-268	172	0
Aug	2000	-3745	9	-255	12.4	110	2	0	0	-252	172	0
Sep	3800	-1397	9	-30	12.4	160	2	0	0	-174	179	0

Demands (TAF)

	Folsom Pumping	Folsom South Canal	OID/SSJID	New Melones CVP Contractors	FRSA Demands	CCWD	SWP NOD Contractors	Delta Mendota Canal	Federal Dos Amigos	San Felipe	SWP SOD Contractors	Joaquin Riparian	San Ag/M&I	Friant Div.
Oct	11	1.7	0.0	0	30	3.5	>1	80	22	1.5	52	10	>1	
Nov	5	1.5	0.0	0	131	4.3	>1	35	14	1.3	40	10	>1	
Dec	5	1.5	0.0	0	96	4.7	>1	25	11	1.2	34	9	>1	
2016 Jan	4	1.1	0.0	0		4.7		0	5	0.5				
Feb	4	0.8	0.0	0		3.5		10	1	0.5				
Mar	5	1.2	20.0	0		3.5		10	27	1				
Apr	7	1.3	55.0	0		8.7		10	32	1				
May	10	1.7	65.0	0		8.7		20	55	8.2				
Jun	14	2.1	70.0	0		8.7		30	61	8.3				
2015 Jul	15	2.3	66.0	0	129	8.0	3.4	108	67	6.3	125	15	4	
Aug	14	2.2	63.0	0	118	8.3	1	78	35	5.3	101	15	6	
Sep	12	2.0	36.0	0	47	8.7	>1	50	34	2.8	59	15	2	

- NOTE: 1) New Melones Reservoir inflow adapted from OID/SSJID data
 2) Forecast input data includes water assumed to be made available for transfer by the Sacramento River Settlement Contractors in May, June, and July
 3) June forecast data for Friant still in draft; data shown for Friant Division is carried over from May Hydrology Report

50% Exceedence Forecast - Input Data

Inflows (TAF)

	Trinity	Whiskeytown	Shasta	Folsom	New Melones	Oroville	Millerton
Oct	14	3	240	90	35	120	7
Nov	32	7	300	100	35	170	9
Dec	58	16	380	120	40	220	5
2016 Jan							
Feb							
Mar							
Apr							
May							
Jun							
2015 Jul	8	3	150	50	18	63	68
Aug	5	2	140	51	17	52	59
Sep	3	2	136	45	16	87	61

River Releases

	Trinity (cfs)	Clear Creek (cfs)	Goodwin (cfs)	Oroville (cfs)
Oct	373	200	577	950
Nov	300	200	200	950
Dec	300	175	206	950
2016 Jan				
Feb				
Mar				
Apr				
May				
Jun				
2015 Jul	450	120	150	3100
Aug	450	120	150	1350
Sep	450	150	150	1300

Hydrology

	Wilkin's Target (cfs)	Kes-Wilkin's Acc/Dep (cfs)	SJR Above Stan (TAF)	Sac Gross Acc/Dep (TAF)	Freeport Treatment Plant (TAF)	East Side Streams (cfs)	Misc. Creeks (TAF)	Yolo Bypass (TAF)	Transfer Inflow (TAF)	Delta Consumptive Use (TAF)	Delta Outflow (TAF)	X-Channel Gate
Oct	4000	-164	34	100	13.3	650	29	0	0	-118	184	0
Nov	4000	587	34	150	14	889	19	0	0	-55	208	1
Dec	4000	2615	33	330	13.2	1260	11.1	0	0	-2	215	1
2016 Jan												
Feb												
Mar												
Apr												
May												
Jun												
2015 Jul	2000	-4833	17	-405	12.3	325	2	0	0	-268	172	0
Aug	2000	-3745	14	-255	12.4	325	2	0	0	-252	172	0
Sep	3800	-1305	17	-30	12.4	336	2	0	0	-174	179	0

Demands (TAF)

	Folsom Pumping	Folsom South Canal	OID/SSJID	New Melones CVP Contractors	FRSA Demand	CCWD	SWP NOD Demand	Delta Mendota Canal	Federal Dos Amigos	San Felipe	SWP SOD Contractors	San Joaquin Riparian	Friant Div. Ag/M&I
Oct	10	2.4	10.0	0	30	8.4	<1	40	8	3	52	10.2	3
Nov	8	1.8	0.0	0	131	9.2	<1	20	5	2	40	9.5	0
Dec	6	1.2	0.0	0	96	9.2	<1	10	5	2	34	9.4	0
2016 Jan	6	1.2	0.0	0	0	7.0		10	5	2			
Feb	6	1.2	0.0	0	0	7.0		20	1	2			
Mar	6	1.5	20.0	0	0	6.4		20	27	3			
Apr	13	1.8	55.0	0	0	11.9		30	32	3			
May	13	2.7	65.0	0	0	11.9		50	50	4			
Jun	14	3.6	70.2	0	0	10.4		70	56	3			
2015 Jul	15	4.5	70.2	0	129	11.1	3.4	80	66	3	125	15.4	19.9
Aug	19	4.5	63.0	0	118	11.9	1	2	20	3	101	15.3	56.8
Sep	10	3.6	36.0	0	47	12.5	<1	60	15	3	59	14.9	12.1

- NOTE: 1) New Melones Reservoir inflow adapted from OID/SSJID data
 2) Forecast input data includes water assumed to be made available for transfer by the Sacramento River Settlement Contractors in May, June, and July
 3) June forecast data for Friant still in draft; data shown for Friant Division is carried over from May Hydrology Report

99% Exceedence Forecast - Input Data

Inflows (TAF)

	Trinity	Whiskeytown	Shasta	Folsom	New Melones	Oroville	Millerton
Oct				200	50	74	11.4
Nov				230	50	83	2.6
Dec				260	60	110	2.2
2016 Jan							
Feb							
Mar							
Apr							
May							
2015 Jun				184	52	70	6.3
Jul				100	50	64	35.8
Aug				100	44	64	38
Sep				95	30	54	37

River Releases

	Trinity (cfs)	Clear Creek (cfs)	Goodwin (cfs)	Oroville (cfs)
Oct				1150
Nov				950
Dec				950
2016 Jan				
Feb				
Mar				
Apr				
May				
2015 Jun				2390
Jul				2800
Aug				1300
Sep				800

Hydrology

	Wilkin's Target (cfs)	Kes-Wilkin's Acc/Dep (cfs)	SJR Above Stan (TAF)	Sac Gross Acc/Dep (TAF)	Freeport Treatment Plant (TAF)	East Side Streams (cfs)	Misc. Creeks (TAF)	Yolo Bypass (TAF)	Transfer Inflow (TAF)	Delta Consumptive Use (TAF)	Delta Outflow (cfs)	X-Channel Gate
Oct				-25		10					4200	
Nov				88		15					5500	
Dec				137		10					5000	
2016 Jan												
Feb												
Mar												
Apr												
May												
2015 Jun				-330		20					4500	
Jul				-405		20					3000	
Aug				-255		20					3000	
Sep				-30		20					3000	

Demands (TAF)

	Folsom Pumping	Folsom South Canal	OID/SSJID	New Melones CVP Contractors	FRSA Demand	CCWD	SWP NOD Demand	Delta Mendota Canal	Federal Dos Amigos	San Felipe	SWP SOD Contractors	San Joaquin Riparian	Friant Div. Ag/M&I
Oct						30		>1			59	10.2	0.4
Nov						131		>1			42	9.5	0.4
Dec						96		>1			36	9.4	0.4
2016 Jan													
Feb													
Mar													
Apr													
2015 May													
Jun						128		1.5			86	14.8	4.8
Jul						129		3.4			86	15.4	4.3
Aug						118		1.4			127	15.3	15.5
Sep						47		1.7			83	14.9	2.5

Note - Neither the CVP nor the SWP updated the 99% exceedence forecast for July. This data is a carryover from last month's report

Estimated CVP Operations Jun 90% Exceedance - 7250 cfs Keswick Jun, Jul, Aug

Storages

Federal End of the Month Storage/Elevation (TAF/Feet)

		Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	
Trinity		930	821	711	620	589	556	540	548	584	651	719	648	495
	Elev.	2234	2219	2205	2200	2195	2192	2193	2199	2210	2220	2210	2184	
Whiskeytown		239	238	238	230	206	206	206	206	206	206	238	238	238
	Elev.	1209	1209	1207	1199	1199	1199	1199	1199	1199	1199	1209	1209	1209
Shasta		2198	1929	1659	1432	1351	1360	1385	1506	1706	2033	2229	2110	1903
	Elev.	953	936	921	914	915	917	926	939	959	970	964	952	
Folsom		438	278	167	132	138	150	172	205	265	388	549	586	435
	Elev.	383	358	347	349	353	360	368	381	401	423	427	408	
New Melones		401	343	285	258	240	237	235	239	246	252	258	257	196
	Elev.	820	804	795	789	789	788	789	792	793	795	795	774	
San Luis		254	104	1	46	103	132	195	242	274	369	370	308	231
	Elev.	397	362	356	353	369	399	434	458	472	468	456	437	
Total		3713	3061	2718	2625	2641	2733	2945	3281	3900	4363	4148	3497	

State End of the Month Reservoir Storage (TAF)

Oroville		1395	1139	979	935	925	817	762	873	1019	1237	1465	1413	1244
	Elev.	685	661	654	652	634	624	644	667	698	726	720	699	
San Luis		559	392	251	172	102	165	321	575	780	838	781	721	613
Total San Luis (TAF)		813	496	252	217	205	297	515	817	1054	1207	1151	1028	844

Monthly River Releases (TAF/cfs)

Trinity	TAF	28	28	27	23	18	18	18	17	18	32	180	47
	cfs	450	450	450	373	300	300	300	300	300	540	2,924	783
Clear Creek	TAF	7	5	9	11	10	11	11	10	11	13	13	9
	cfs	120	85	150	175	175	175	175	175	175	218	216	150
Sacramento	TAF	446	446	387	307	238	246	200	180	200	256	479	431
	cfs	7250	7250	6500	5000	4000	4000	3250	3250	3250	4300	7800	7250
American	TAF	182	137	56	31	30	31	31	45	49	48	137	183
	cfs	2954	2222	940	500	504	501	505	803	800	800	2224	3079
Stanislaus	TAF	9	9	9	35	12	13	16	17	17	9	9	9
	cfs	150	150	150	577	200	206	261	309	280	150	150	150
Feather	TAF	184	101	57	58	57	58	58	53	49	48	136	92
	cfs	3000	1650	950	950	950	950	950	950	800	800	2207	1550

Trinity Diversions (TAF)

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Carr PP	82	82	62	15	28	19	6	1	1	38	37	117
Spring Crk. PP	75	75	60	30	19	12	3	3	10	8	30	110

Delta Summary (TAF)

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Tracy	19	19	133	162	80	100	54	44	135	48	25	26
USBR Banks	0	0	0	0	0	0	0	0	0	0	0	0
Contra Costa	8.0	8.3	8.7	3.5	4.3	4.7	4.7	3.5	3.5	8.7	8.7	8.7
Total USBR	27	27	142	166	84	105	59	48	139	56	33	35
State Export	22	22	25	30	77	172	301	237	135	42	25	24
Total Export	49	49	167	196	161	277	360	285	274	98	58	59
COA Balance	-180	-176	-142	-156	-209	-205	-72	0	0	0	0	0

Old/Middle River Std.												
Old/Middle R. calc.	-1,070	-1,075	-2,613	-2,531	-2,330	-3,721	-4,714	-4,081	-3,568	-1,570	-1,136	-1,215

Computed DOI	2798	2798	3009	4197	5093	4994	6003	7096	7825	5934	4815	4001
Excess Outflow	0	0	0	0	0	0	0	0	716	1933	0	0
% Export/Inflow	8%	9%	31%	35%	31%	47%	53%	44%	36%	17%	10%	10%
% Export/Inflow std.	65%	65%	65%	65%	65%	65%	65%	45%	35%	35%	35%	35%

Hydrology

Water Year Inflow (TAF)	Trinity	881	Shasta	3,508	Folsom	866	New Melones	318
Year to Date + Forecasted % of mean	73%	63%	32%	30%				

Storages

Federal End of the Month Storage/Elevation (TAF/Feet)

		Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Trinity		930	808	683	594	543	537	575	640	752	879	1028	911
	Elev.	2232	2215	2201	2192	2191	2198	2208	2224	2241	2258	2260	2245
Whiskeytown		239	238	238	230	230	225	206	206	206	238	238	238
	Elev.	1209	1209	1207	1207	1205	1199	1199	1199	1199	1209	1209	1209
Shasta		2198	1978	1751	1551	1509	1558	1762	2174	2757	3393	3794	3616
	Elev.	956	942	929	926	929	943	967	997	1024	1040	1041	1033
Folsom		438	266	160	134	179	239	275	349	504	661	804	837
	Elev.	381	356	348	362	376	383	395	417	435	450	466	453
New Melones		401	336	278	250	245	268	295	328	391	456	526	631
	Elev.	818	802	793	791	799	807	816	832	848	863	895	884
San Luis		154	19	9	50	138	239	421	573	597	675	595	493
	Elev.	400	378	373	393	422	454	478	499	511	505	495	472
Total		3645	3118	2808	2844	3066	3534	4271	5207	6271	7043	7353	6726

State End of the Month Reservoir Storage (TAF)

Oroville		1395	1142	997	935	965	947	1012	1272	1668	2055	2511	2710	2544
	Elev.	685	664	654	659	656	666	703	749	788	827	843	830	
San Luis		660	506	350	278	333	467	595	692	901	962	909	858	710
Total San Luis (TAF)		814	525	358	328	470	706	1017	1265	1498	1638	1563	1453	1203

Monthly River Releases (TAF/cfs)

Trinity	TAF	28	28	27	23	18	18	18	17	18	32	180	47
	cfs	450	450	450	373	300	300	300	300	300	540	2,924	783
Clear Creek	TAF	7	7	9	12	12	11	11	10	11	13	13	9
	cfs	120	120	150	200	200	175	175	175	175	218	216	150
Sacramento	TAF	446	446	387	307	268	200	200	180	200	214	474	431
	cfs	7250	7250	6500	5000	4500	3250	3250	3250	3250	3603	7706	7250
American	TAF	197	130	56	31	30	77	77	107	154	280	289	166
	cfs	3200	2109	940	508	500	1250	1250	1919	2500	4700	4700	2788
Stanislaus	TAF	9	9	9	35	12	13	16	17	17	30	9	9
	cfs	150	150	150	577	200	206	261	309	280	500	150	150
Feather	TAF	197	101	89	58	57	58	58	53	49	48	92	101
	cfs	3200	1650	1500	950	950	950	950	950	800	800	1500	1700

Trinity Diversions (TAF)

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Carr PP	96	98	61	40	19	1	1	0	3	26	24	93
Spring Crk. PP	90	90	60	30	19	25	25	35	30	5	25	90

Delta Summary (TAF)

	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Tracy	18	18	121	140	129	200	170	48	130	48	49	30
USBR Banks	0	0	0	0	0	0	0	0	0	0	0	0
Contra Costa	11.05	11.85	12.5	8.4	9.2	9.15	7	7	6.35	11.85	11.85	10.4
Total USBR	29	30	134	148	138	209	177	55	136	59	61	40
State Export	26	26	79	206	243	200	170	252	130	42	43	32
Total Export	55	56	213	354	381	409	347	307	266	101	104	72
COA Balance	-176	-161	-104	-24	0	0	0	0	0	0	0	0
Old/Middle R. std.												
Old/Middle R. calc.	-1,088	-1,120	-3,144	-4,521	-5,177	-5,381	-4,555	-4,392	-3,478	-1,269	-1,421	-1,339
Computed DOI	2798	2798	3009	2993	3496	6653	10135	11400	14559	9850	7938	4001
Excess Outflow	0	0	0	0	0	3156	4132	0	3156	5850	3140	0
% Export/Inflow	10%	11%	36%	55%	60%	50%	37%	33%	23%	12%	13%	13%
% Export/Inflow std.	65%	65%	65%	65%	65%	65%	65%	35%	35%	35%	35%	35%

Hydrology

	Trinity	Shasta	Folsom	New Melones
Water Year Inflow (TAF)	884	3,597	884	314
Year to Date + Forecasted % of mean	73%	65%	32%	30%

CVP actual operations do not follow any forecasted operation or outlook; actual operations are based on real-time conditions.
 CVP operational forecasts or outlooks represent general system-wide dynamics and do not necessarily address specific watershed/tributary details.
 CVP releases or export values represent monthly averages.
 CVP Operations are updated monthly as new hydrology information is made available December through May.

BOR July Forecast Input Data - 90% Exceedence

Inflows							
	Trinity	Whiskeytown	Shasta	Folsom	New Melor	Oroville	
Oct	10	9	2	200	50	11	80
Nov	11	14	2	230	50	10	80
Dec	12	22	4	260	60	11	100
Jan	1	33	8	320	70	20	170
Feb	2	55	12	380	110	25	200
Mar	3	88	20	520	180	45	280
Apr	4	140	16	450	220	75	290
May	5	150	8	340	190	80	210
Jun	6	13	4	125	53	19	56
Start Mont Jul	7	7	2	116	45	21	64
Aug	8	4	1	112	46	17	64
Sep	9	2	1	109	37	17	64

Modified Normal/Dry

River Releases				
	Trinity (cfs)	Clear Creek	Goodwin (cfs)	
Oct	10	372.58065	175	577
Nov	11	300	175	200
Dec	12	300	175	206
Jan	1	300	175	261
Feb	2	300	175	309
Mar	3	300	175	280
Apr	4	540	218	500
May	5	2924.3226	216	150
Jun	6	783.1	150	150
Start Mont Jul	7	450	120	150
Aug	8	450	85	150
Sep	9	450	150	150

Hydrology

	Wilkin's Tar	Kes-Wilkin's SJR Above	Sac Gross	Freeport Tr	East Side Str	Misc. Creel	Yolo Bypass	Transfer In	Delta Cons	Delta Outflow	X-Channel G	Feather Mi	Feather Target	X-channel	Sac Gross	Acc/Dep (TAF)
Oct	10	3500	-750	34	40	13.3	210	29	0	0	-118	258	0	0	0	100
Nov	11	3500	-68	34	90	14	260	19	0	0	-55	303	0	0	0	150
Dec	12	3500	785	33	160	13.2	160	11.1	0	0	-2	307	1	0	0	330
Jan	1	4000	2456	36	300	13.8	98	0.8	0	0	56	369	1	0	0	15
Feb	2	0	1969	39	240	12	810	0.9	0	0	37	394	1	0	0	400
Mar	3	0	2789	44	320	12.1	671	1.2	0	0	10	437	1	0	0	440
Apr	4	3000	1271	29	75	11.5	390	1.8	0	0	-63	238	1	0	0	40
May	5	3800	-3000	31	-340	12.2	179	2	0	0	-121	296	1	0	0	-120
Jun	6	2500	-4350	9	-271	12.5	180	2	0	0	-191	238	0	0	0	-270
Start Mont Jul	7	2000	-4833	9	-370	12.3	120	2	0	0	-268	172	0	0	0	-350
Aug	8	2000	-3745	9	-255	12.4	110	2	0	0	-252	172	0	0	0	-190
Sep	9	3800	-1397	9	-30	12.4	160	2	0	0	-174	179	0	0	0	20

Demands (TAF)

	Folsom	Pum Folsom	Sout OID/SSJID	New Melor	Thermolito	CCWD	Barker Slo	F. Banks On	F. Banks Of	North Bay	Delta	Mendo	Federal Dos	Fed O'N to San Felipe	Cross Valle	Fed Exchar	Fed Exchar	South Bay/	State Dos	Ar Spring	Creek	Tui
Oct	10	10.827854	1.7498839	0	0	30	3.545888	0	0	0	0	80	22	1.5	0	0	0	4	95	0		
Nov	11	5.4139271	1.5311485	0	0	131	4.2550656	0	0	0	0	35	14	1.3	0	0	0	2	11	0		
Dec	12	5.4139271	1.5311485	0	0	96	4.6603099	0	0	0	0	25	11	1.2	0	0	0	1	15	30		
Jan	1	4.2888904	1.0975384	0	0	0	4.6603099	0	0	0	0	0	5	0.5	0	0	0	0	46	30		
Feb	2	3.916662	0.840565	0	0	0	3.545888	0	0	0	0	10	1	0.5	0	0	0	0	30	30		
Mar	3	5.3356155	1.1887826	20	0	12	3.545888	0	0	0	0	10	27	1	0	0	0	0	76	30		
Apr	4	7.1664295	1.3087313	55	0	11	8.7419547	0	0	0	0	10	32	1	0	0	0	1	94	30		
May	5	10.422346	1.7427027	65	0	122	8.7419547	0	0	0	0	20	55	8.2	0	0	0	3	77	30		
Jun	6	13.690814	2.1137732	70	0	128	8.7419547	0	0	0	0	30	61	8.3	0	0	0	3	125	75		
Start Mont Jul	7	15.485573	2.2557407	66	0	129	7.9821216	0	0	0	0	108	67	6.3	0	-16	0	2	182	87		
Aug	8	14.119371	2.2196719	63	0	118	8.3367104	0	0	0	0	78	35	5.3	0	0	0	5	155	75		
Sep	9	11.91859	2.0203134	36	0	47	8.7419547	0	0	0	0	50	34	2.8	0	0	0	2	100	40		
		108	19.6	375	0	824	75.5	0				456	364	0	37.9	0		23	1006			

BOR JULY Forecast Input Data - 50% Exceedence

Inflows							
	Trinity	Whiskeytown	Shasta	Folsom	New Melone:	Oroville	
Oct	10	14	3	240	90	35	120
Nov	11	32	7	300	100	35	170
Dec	12	58	16	380	120	40	220
Jan	1	85	35	590	160	50	320
Feb	2	130	45	730	270	80	450
Mar	3	150	38	810	320	105	450
Apr	4	210	25	620	440	160	530
May	5	220	16	480	480	250	420
Jun	6	16	8	161	53	19	71
Start Mont Jul	7	8	3	150	50	18	79
Aug	8	5	2	140	51	17	79
Sep	9	3	2	136	45	16	79

River Releases				
	Trinity (cfs)	Clear Creek (cf	Goodwin (cfs)	
Oct	10	372.580645	200	577
Nov	11	300	200	200
Dec	12	300	175	206
Jan	1	300	175	261
Feb	2	300	175	309
Mar	3	300	175	280
Apr	4	540	218	500
May	5	2924.32258	216	150
Jun	6	783.1	150	150
Start Mont Jul	7	450	120	150
Aug	8	450	120	150
Sep	9	450	150	150

Hydrology																	X-channel gate
	Wilkin's Targe	Kes-Wilkin's A	SJR Above	Sac Gross / Freeport	Tre	East Side Stri	Misc. Creeks (T.	Yolo Bypas	Transfer In	Delta Consumj	Delta Outflow	X-Channel	Feather Mi	Feather Target		X-channel gate	
Oct	10	4000	-164	34	100	13.3	650	29	0	0	-118	184	0	0	0	2992.429	0 is open
Nov	11	4000	587	34	150	14	889	19	0	0	-55	208	1	0	0	3495.505	1 is closed
Dec	12	4000	2615	33	330	13.2	1260	11.1	0	0	-2	215	1	0	0	3496.589	
Jan	1	4000	4309	36	490	13.8	228	0.8	0	0	56	369	1	0	0	6001.122	
Feb	2	0	4213	39	440	12	828	0.9	0	0	37	633	1	0	0	11397.6	
Mar	3	0	6473	44	650	12.1	244	1.2	0	0	10	701	1	0	0	11400.51	
Apr	4	3800	-21	29	90	11.5	185	1.8	0	0	-63	238	1	0	0	3999.664	
May	5	3800	-4122	31	-250	12.2	325	2	0	0	-121	295	1	0	0	4797.645	
Jun	6	2500	-4350	16	-260	12.5	336	2	0	0	-191	238	0	0	0	3999.664	
Start Mont Jul	7	2000	-4833	17	-405	12.3	325	2	0	0	-268	172	0	0	0	2797.271	
Aug	8	2000	-3745	14	-255	12.4	325	2	0	0	-252	172	0	0	0	2797.271	
Sep	9	3800	-1305	17	-30	12.4	336	2	0	0	-174	179	0	0	0	3008.151	

Demands (TAF)																						
	Folsom Pumpi	Folsom South	OID/SSJID	New Melor	Thermolito	D CCWD	Barker Slough	F. Banks Or	F. Banks OI	North Bay	Aqu Delta	Mendot	Federal Do	Fed O'N to	San Felipe	Cross Valle	Fed Exchar	Fed Exchar	South Bay/ State	Dos Amig	Spring Creek	Tt
Oct	10	10	2.4	10	0	30	8.4	4.6	0	0	0	40	8	0	3	0	0	0	7	143	90	
Nov	11	7.5	1.8	0	0	131	9.2	3.1	0	0	0	20	5	0	2	0	0	0	5	103	60	
Dec	12	6.25	1.2	0	0	96	9.15	2.9	0	0	0	10	5	0	2	0	0	0	5	66	10	
Jan	1	6.25	1.2	0	0	0	7	2	0	0	0	10	5	0	2	0	0	0	1	71	28	
Feb	2	6.25	1.2	0	0	0	7	1.5	0	0	0	20	1	0	2	0	0	0	1	41	40	
Mar	3	6.25	1.5	20	0	12	6.35	1.4	0	0	0	20	27	0	3	0	0	0	2	65	30	
Apr	4	12.5	1.8	55	0	23	11.85	1.9	0	0	0	30	32	0	3	0	0	0	3	88	0	
May	5	12.5	2.7	65	0	122	11.85	3.9	0	0	0	50	50	0	4	0	0	0	2	87	30	
Jun	6	13.75	3.6	70.2	0	128	10.4	5.2	0	0	0	70	56	0	3	0	0	0	11	164	60	
Start Mont Jul	7	15	4.5	70.2	0	129	11.05	6.6	0	0	0	80	66	0	3	0	0	0	8	167	80	
Aug	8	18.6	4.5	63	0	118	11.85	6.9	0	0	0	2	20	0	3	0	0	0	6	173	50	
Sep	9	9.9	3.6	36	0	47	12.5	5.5	0	0	0	60	15	0	3	0	0	0	6	142	30	
		124.75	30	389.4	0	836	116.6	45.5	0			412	290	0	33	0			57	1310	508	