

---

From: **Fujitani, Paul** <[pfujitani@usbr.gov](mailto:pfujitani@usbr.gov)>

Date: Fri, Aug 28, 2015 at 4:38 PM

Subject: Monthly Water Balance Information

To: "Grober, Les@Waterboards" <[Les.Grober@waterboards.ca.gov](mailto:Les.Grober@waterboards.ca.gov)>, "Riddle, Diane@Waterboards" <[Diane.Riddle@waterboards.ca.gov](mailto:Diane.Riddle@waterboards.ca.gov)>, "Bartolomeo, Eleanor@Waterboards" <[Eleanor.Bartolomeo@waterboards.ca.gov](mailto:Eleanor.Bartolomeo@waterboards.ca.gov)>

Cc: "Pettit, Tracy@DWR" <[Tracy.Pettit@water.ca.gov](mailto:Tracy.Pettit@water.ca.gov)>, "Chu, Andy" <[andychu@water.ca.gov](mailto:andychu@water.ca.gov)>, Elizabeth Kiteck <[ekiteck@usbr.gov](mailto:ekiteck@usbr.gov)>

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

Reclamation did not prepare a 99% exceedence forecast for August, but we have included data prepared by DWR for a 99%.

I have also included a copy of a 90% and 50% exceedence forecast summary prepared by the Central Valley Operations Office in August and the corresponding input data on a separate Excel spreadsheet for your use. Note that these forecasts do not include releases made from Trinity Reservoir for the Lower Klamath in August and September.

Thanks

Paul

--

(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	346		
24	70	41	148	211	268		

### Deliveries

Values in TAF  
SWP - North of Delta M&I Contract Deliveries  
SWP - North of Delta Agricultural Contract Deliveries  
SWP - South of Delta Contract 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	2		
0	12	23	115	110	122		
39	66	76	93	109	149		
NA	NA	77	253	245	261		
1.3	6	11	18	17	17		
2	15 est.	7	4	5	7		
3	3	2	5	13	9		
18	36	26	36	68	73		
15	3	2	1	<1	1		
2	6	7	15	27	37		
1	1	1	<1	1	1		
12	17	25	35	48	44		
3	4	7	8	8	7		
1	5	6	9	16	21		
<1	<1	<1	<1	3	4		
<1	<1	<1	<1	<1	<1		
1	1	1	2	2	2		
3	5	6	6	8	8		
6	-8	-28	-83	-35	-70		

### 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	7532		
15,800	4980	5360	5165	3849	3424		
870	636	845	399	192	133		
58	120	63	30	26	25		
221	71	30	24	18	17		

### 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	9		
63	9	7	4	1	1		
720	262	221	185	164	151		
168	65	50	52	52	44		
55	19	17	24	19	20		
338	123	83	56	67	63		

### 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	110		
62	14	12	20	62	82		
106	180	240	434	358	347		
51	56	43	91	147	192		
12	69	77	59	67	75		
53	50	74	165	137	191		
1	3	37	21	62	83		

### 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	825		
207	205	236	239	238	238		
2613	2689	2662	2404	2198	1990		
564	572	576	535	438	286		
606	554	491	453	401	344		
1736	1794	1782	1565	1395	1162		

- 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 on : <http://www.usbr.gov/mp/cvo/deliv.html>  
4. Positive COA represents account in Reclamation favor, numbers not adjusted for transfers or non-project water  
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

				New			
	Trinity	Whiskeytown	Shasta	Folsom	Melones	Oroville	
Oct	10	9	2	200	20	11	69
Nov	11	14	2	230	32	10	71
Dec	12	22	4	260	60	11	98
Jan	1	33	8	320	70	20	179
Feb	2	55	12	380	110	25	208
Mar	3	88	20	520	180	45	299
Apr	4	140	16	450	220	75	290
May	5	150	8	340	190	80	211
Jun	6	58	4	240	90	40	162
Jul	7	18	2	200	60	30	107
Start Mont Aug	8	5	1	112	52	17	64
Sep	9	2	1	109	40	17	64

Modified Normal/Dry

River Releases

	Trinity (cfs)			Clear Creek (cfs)		Goodwin (cfs)	
Oct	10	372.5806452		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	2924.322581		216		150	
Jun	6	783.1		150		150	
Jul	7	450		120		150	
Start Mont Aug	8	801		85		150	
Sep	9	795		150		150	

Hydrology

	Freeport															Delta			X-channel gate						
	Wilkin's Target		Kes-Wilkin's Acc/Dep		SJR Above Stan		Sac Gross Acc/Dep		Treatment Plant		East Side		Misc.		Yolo		Transfer			Consumpt		Delta			
	(cfs)	(cfs)	(TAF)	(TAF)	(TAF)	(TAF)	(cfs)	(TAF)	(cfs)	(TAF)	(TAF)	(TAF)	(TAF)	(TAF)	(TAF)	(TAF)	(TAF)	(TAF)		(TAF)	(TAF)	(TAF)	(TAF)	(TAF)	(TAF)
Oct	10	3500	-771	12	40	13.3	210	29	0	0	-118	258	0	0	0	0	0	0	0	0	0	0	0	0	1 is closed
Nov	11	3500	-73	12	90	14	260	19	0	0	-55	303	0	0	0	0	0	0	0	0	0	0	0	0	0 is open
Dec	12	3500	741	20	160	13.2	160	11.1	0	0	-2	307	1	0	0	0	0	0	0	0	0	0	0	0	0
Jan	1	4000	2325	36	300	13.8	98	0.8	0	0	56	369	1	0	0	0	0	0	0	0	0	0	0	0	0
Feb	2	0	1844	39	240	12	810	0.9	0	0	37	633	1	0	0	0	0	0	0	0	0	0	0	0	0
Mar	3	0	2696	44	320	12.1	671	1.2	0	0	10	701	1	0	0	0	0	0	0	0	0	0	0	0	0
Apr	4	4000	-1140	29	-20	11.5	390	1.8	0	0	-63	644	1	0	0	0	0	0	0	0	0	0	0	0	0
May	5	4000	-3454	31	-220	12.2	179	2	0	0	-121	467	1	0	0	0	0	0	0	0	0	0	0	0	0
Jun	6	4000	-4590	9	-320	12.5	180	2	0	0	-191	422	0	0	0	0	0	0	0	0	0	0	0	0	0
Jul	7	4000	-4454	9	-330	12.3	120	2	0	0	-268	307	0	0	0	0	0	0	0	0	0	0	0	0	0
Start Mont Aug	8	2000	-3745	6	-255	12.4	110	2	0	0	-252	172	0	0	0	0	0	0	0	0	0	0	0	0	0
Sep	9	3800	-1397	6	-30	12.4	160	2	0	0	-174	179	0	0	0	0	0	0	0	0	0	0	0	0	0

Demands (TAF)

	Folsom			New Melones		Thermolito		Barker		F. Banks		Delta		Federal		Cross		Fed		Fed		South		Spring	
	Pumping	Folsom South Canal	OID/SSJID	Contractors	CVP	o Demand	CCWD	Slough	On-Peak	Off-Peak	North Bay	Mendota	Dos	Amigos	Fed O'N to	San Felipe	Valley Canal	Exchange Oneil	Exchange San Luis	Bay/San Jose	State Dos Amigos	Dos Amigos	Creek Tunnel		
Oct	10	11	2	0	0	51	10	0	0	0	0	75	24	0	0	0.5	0	0	0	0	4	95	0	0	
Nov	11	5	2	0	0	4	4	0	0	0	0	60	15	0	0	0.5	0	0	0	0	2	11	0	0	
Dec	12	5	2	0	0	51	5	0	0	0	0	31	12	0	0	0.5	0	0	0	0	1	15	30	0	
Jan	1	4	1	0	0	0	5	0	0	0	0	12	5	0	0	0.5	0	0	0	0	0	46	30	0	
Feb	2	4	1	0	0	0	4	0	0	0	0	10	3	0	0	0.5	0	0	0	0	0	30	30	0	
Mar	3	5	1	20	0	12	4	0	0	0	0	10	27	0	0	1	0	0	0	0	0	76	30	0	
Apr	4	7	1	55	0	11	3	0	0	0	0	10	32	0	0	1	0	0	0	0	1	94	30	0	
May	5	10	2	65	0	122	3	0	0	0	0	20	55	0	0	10.5	0	0	0	0	3	77	30	0	
Jun	6	14	2	70	0	128	3	0	0	0	0	30	61	0	0	5	0	0	0	0	3	125	75	0	
Jul	7	15	2	66	0	129	2	0	0	0	0	78	71	0	0	5.5	0	0	0	0	2	182	87	0	
Start Mont Aug	8	14	2	63	0	95	3	0	0	0	0	57	39	0	0	5	0	0	0	0	5	155	75	0	
Sep	9	12	2	36	0	69	9	0	0	0	0	56	34	0	0	2.7	0	0	0	0	2	100	40	0	
		108	19.6	375	0	824	75.5	0				456	364	0	37.9	0				23	1006				

50% Exceedence Forecast - Input Data

Inflows

	Trinity	Whiskeyto	Shasta	Folsom	New Melor	Oroville	
Oct	10	14	3	240	21	35	120
Nov	11	32	7	300	33	35	170
Dec	12	58	16	380	70	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	103	8	300	240	150	240
Jul	7	28	3	230	140	45	150
Start Mont Aug	8	5	2	140	59	17	70
Sep	9	3	2	136	49	16	95

River Releases

	Trinity (cfs)	Clear Creek	Goodwin (cfs)	
Oct	10	372.5806	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	2924.323	216	150
Jun	6	783.1	150	150
Jul	7	450	120	150
Start Mont Aug	8	450	120	150
Sep	9	450	150	150

Hydrology

	Kes-		Freeport					Yolo Bypass (TAF)	Transfer Inflow (TAF)	Delta Consumptive Use (TAF)	Delta Outflow (TAF)	X-Channel Gate	Feather Minimum	Feather Target	X-channel gate
	Wilkin's Target (cfs)	Wilkin's Acc/Dep (cfs)	SJR Above Stan (TAF)	Sac Gross Acc/Dep (TAF)	Treatment Plant (TAF)	East Side Streams (cfs)	Misc. Creeks (TAF)								
Oct	10	3500	-164	47	100	13.3	210	29	0	0	-118	246	0	0	0
Nov	11	3500	587	48	150	14	260	19	0	0	-55	268	1	0	0
Dec	12	4000	2615	48	330	13.2	160	11.1	0	0	-2	277	1	0	0
Jan	1	4000	4309	52	700	13.8	2716	0.8	0	0	56	369	1	0	0
Feb	2	0	4213	63	880	12	1422	0.9	0	0	37	633	1	0	0
Mar	3	0	6473	69	970	12.1	7611	1.2	0	0	10	701	1	0	0
Apr	4	4000	-21	55	310	11.5	2890	1.8	0	0	-63	678	1	0	0
May	5	4000	-4122	60	-50	12.2	1888	2	0	0	-121	701	1	0	0
Jun	6	4000	-5244	30	-185	12.5	1254	2	0	0	-191	559	0	0	0
Jul	7	4000	-6233	26	-250	12.3	563	2	0	0	-268	492	0	0	0
Start Mont Aug	8	2000	-3745	9	-255	12.4	325	2	0	0	-252	172	0	0	0
Sep	9	3800	-1305	9	-30	12.4	336	2	0	0	-174	179	0	0	0

Demands (TAF)

	Folsom		New Melones		Thermolito Demand	Barker Slough	F. Banks On-Peak	F. Banks Off-Peak	North Bay Aqueduct	Delta Mendota Canal	Federal Dos Amigos	Fed O'N to D.A.	Cross Valley San Felipe Canal	Fed Exchange Oneil	Fed Exchange San Luis	South Bay/San Jose	State Dos Amigos	Spring Creek Tunnel	
	Pumping	South Canal	OID/SSJID	Contractors															
Oct	10	10	2.4	10	0	51	8.4	4.6	0	0	0	40	8	0	3	0	7	143	90
Nov	11	7.5	1.8	0	0	4	9.2	3.1	0	0	0	20	5	0	2	0	5	103	60
Dec	12	6.25	1.2	0	0	51	9.15	2.9	0	0	0	10	5	0	2	0	5	66	10
Jan	1	6.25	1.2	0	0	0	7	2	0	0	0	10	5	0	2	0	1	71	28
Feb	2	6.25	1.2	0	0	0	7	1.5	0	0	0	20	1	0	2	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	2	65	30
Apr	4	12.5	1.8	55	0	23	11.85	1.9	0	0	0	30	32	0	3	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	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	11	164	60
Jul	7	15	4.5	70.2	0	129	11.05	6.6	0	0	0	80	66	0	3	0	8	167	80
Start Mont Aug	8	18.6	4.5	63	0	95	11.85	6.9	0	0	0	2	20	0	3	0	6	173	50
Sep	9	9.9	3.6	36	0	69	12.5	5.5	0	0	0	60	15	0	3	0	6	142	30

99% Exceedence Forecast - Input Data

Inflows (TAF)

	Trinity	Whiskeytown	Shasta	Folsom	New Melones	Oroville	Millerton
Oct				170	20	74	11.4
Nov				180	20	65	2.6
Dec				190	20	62	2.2
2016 Jan							
Feb							
Mar							
Apr							
May							
Jun							
2015 Jul							
Aug				100	44	64	38
Sep				95	30	54	37

River Releases

	Trinity (cfs)	Clear Creek (cfs)	Goodwin (cfs)	Oroville (cfs)
Oct				1125
Nov				950
Dec				950
2016 Jan				
Feb				
Mar				
Apr				
May				
2015 Jun				
Jul				
Aug				1900
Sep				1360

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												
Jul												
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													
Nov						51		<1				51	
Dec						131		<1				42	
2016 Jan						96		<1				39	
Feb													
Mar													
Apr													
2015 May													
Jun													
Jul													
Aug							95	1				71	
Sep							69	<1				60	

**Storages**

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

		Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Trinity		825	714	625	574	568	607						
	Elev.	2219	2206	2198	2197	2203							
Whiskeytown		238	238	230	230	225	206						
	Elev.	1209	1207	1207	1207	1205	1199						
Shasta		1990	1751	1551	1509	1559	1763						
	Elev.	942	929	926	929	943							
Folsom		286	182	159	136	129	161						
	Elev.	363	356	349	347	357							
New Melones		344	284	256	252	274	301						
	Elev.	803	795	793	800	809							
San Luis		82	84	51	149	300	479						
	Elev.	380	374	385	404	443							
<b>Total</b>		3253	2873	2850	3056	3516							

**State End of the Month Reservoir Storage (TAF)**

Oroville		1162	1008	949	947	1056	1166						
	Elev.	665	656	656	673	688							
San Luis		441	293	279	258	259	421						
<b>Total San Luis (TAF)</b>		523	377	330	406	559	901						

**Monthly River Releases (TAF/cfs)**

Trinity	TAF	28	27	23	18	18							
	cfs	450	450	373	300	300							
Clear Creek	TAF	7	9	12	12	11							
	cfs	120	150	200	200	175							
Sacramento	TAF	443	387	307	268	200							
	cfs	7200	6500	5000	4500	3250							
American	TAF	135	56	31	30	31							
	cfs	2200	941	500	501	500							
Stanislaus	TAF	9	9	35	12	13							
	cfs	150	150	577	200	206							
Feather	TAF	124	81	69	57	58							
	cfs	2017	1363	1122	950	950							

**Trinity Diversions (TAF)**

	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Carr PP	83	61	40	19	1							
Spring Crk. PP	76	60	30	19	25							

**Delta Summary (TAF)**

	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Tracy	30	47	150	179	197							
USBR Banks	0	0	0	0	0							
Contra Costa	11.85	12.5	8.4	9.2	9.15							
<b>Total USBR</b>	42	60	158	188	206							
State Export	34	137	130	110	234							
<b>Total Export</b>	76	197	288	298	440							
COA Balance	-196	-75	-28	0	0							
Old/Middle R. std.												
Old/Middle R. calc.	-1,407	-2,998	-3,599	-3,997	-5,659							
Computed DOI	2798	3009	4002	4505	4539							
Excess Outflow	0	0	0	0	33							
% Export/Inflow	14%	34%	45%	48%	61%							
% Export/Inflow std.	65%	65%	65%	65%	65%							

**Hydrology**

Water Year Inflow (TAF)	Trinity	Shasta	Folsom	New Melones
Year to Date + Forecasted	885	3,598	890	316
% of mean	73%	65%	33%	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.

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

**Storages**

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

		Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Trinity		825	695	584	553	520	504						
	Elev.	2216	2199	2194	2188	2185							
Whiskeytown		238	238	230	206	206	206						
	Elev.	1209	1207	1199	1199	1199							
Shasta		1991	1723	1496	1415	1424	1449						
	Elev.	940	925	919	920	922							
Folsom		286	182	164	139	133	155						
	Elev.	362	357	350	348	355							
New Melones		344	284	257	238	236	234						
	Elev.	803	795	789	788	788							
San Luis		82	7	42	67	77	153						
	Elev.	372	367	362	370	397							
<b>Total</b>		3128	2773	2617	2596	2701							

**State End of the Month Reservoir Storage (TAF)**

Oroville		1162	1002	912	859	869	857						
	Elev.	664	650	641	643	641							
San Luis		441	311	241	191	225	348						
<b>Total San Luis (TAF)</b>		523	318	283	257	303	501						

**Monthly River Releases (TAF/cfs)**

Trinity	TAF	49	47	23	18	18							
	cfs	801	795	373	300	300							
Clear Creek	TAF	5	9	11	10	11							
	cfs	85	150	175	175	175							
Sacramento	TAF	443	387	307	238	246							
	cfs	7200	6500	5000	4000	4000							
American	TAF	136	42	31	30	31							
	cfs	2206	701	501	504	501							
Stanislaus	TAF	9	9	35	12	13							
	cfs	150	150	577	200	206							
Feather	TAF	124	81	69	57	58							
	cfs	2017	1363	1122	950	950							

**Trinity Diversions (TAF)**

	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Carr PP	81	62	15	28	19							
Spring Crk. PP	75	60	30	19	12							

**Delta Summary (TAF)**

	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul
Tracy	29	130	125	87	120							
USBR Banks	0	0	0	0	0							
Contra Costa	2.8	9.2	9.5	4.3	4.7							
<b>Total USBR</b>	32	139	135	91	125							
State Export	33	35	50	48	139							
<b>Total Export</b>	65	174	185	139	264							
COA Balance	-197	-195	-194	-193	-193							
Old/Middle River Std.												
Old/Middle R. calc.	-1,291	-2,732	-2,554	-2,212	-3,653							
Computed DOI	2798	3009	4197	5093	4994							
Excess Outflow	0	0	0	0	0							
% Export/Inflow	13%	31%	33%	28%	46%							
% Export/Inflow std.	65%	65%	65%	65%	65%							

**Hydrology**

Water Year Inflow (TAF)	Trinity	884	Shasta	3,543	Folsom	874	New Melones	317
	Year to Date + Forecasted % of mean	73%	64%	32%	30%			

Inflows

					New		
	Trinity	Whiskeytown	Shasta	Folsom	Melones	Oroville	
Oct	10	9	2	200	20	11	69
Nov	11	14	2	230	32	10	71
Dec	12	22	4	260	60	11	98
Jan	1	33	8	320	70	20	179
Feb	2	55	12	380	110	25	208
Mar	3	88	20	520	180	45	299
Apr	4	140	16	450	220	75	290
May	5	150	8	340	190	80	211
Jun	6	58	4	240	90	40	162
Jul	7	18	2	200	60	30	107
Start Mont Aug	8	5	1	112	52	17	64
Sep	9	2	1	109	40	17	64

Modified Normal/Dry

	River Releases			
	Trinity (cfs)	Clear Creek (cfs)	Goodwin (cfs)	
Oct	10	372.5806452	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	2924.322581	216	150
Jun	6	783.1	150	150
Jul	7	450	120	150
Start Mont Aug	8	801	85	150
Sep	9	795	150	150

Hydrology

	Freeport														Delta			X-channel gate
	Wilkin's Target (cfs)	Kes-Wilkin's Acc/Dep (cfs)	SJR Above Stan (TAF)	Sac Gross Acc/Dep (TAF)	Treatment Plant (TAF)	East Side Streams (cfs)	Misc. Creeks (TAF)	Yolo Bypass (TAF)	Transfer Inflow (TAF)	Consumptive Use (TAF)	Delta Outflow (TAF)	X-Channel Gate	Feather Minimum	Feather Target				
Oct	10	3500	-771	12	40	13.3	210	29	0	0	-118	258	0	0	0	1 is closed		
Nov	11	3500	-73	12	90	14	260	19	0	0	-55	303	0	0	0	0 is open		
Dec	12	3500	741	20	160	13.2	160	11.1	0	0	-2	307	1	0	0			
Jan	1	4000	2325	36	300	13.8	98	0.8	0	0	56	369	1	0	0			
Feb	2	0	1844	39	240	12	810	0.9	0	0	37	633	1	0	0			
Mar	3	0	2696	44	320	12.1	671	1.2	0	0	10	701	1	0	0			
Apr	4	4000	-1140	29	-20	11.5	390	1.8	0	0	-63	644	1	0	0			
May	5	4000	-3454	31	-220	12.2	179	2	0	0	-121	467	1	0	0			
Jun	6	4000	-4590	9	-320	12.5	180	2	0	0	-191	422	0	0	0			
Jul	7	4000	-4454	9	-330	12.3	120	2	0	0	-268	307	0	0	0			
Start Mont Aug	8	2000	-3745	6	-255	12.4	110	2	0	0	-252	172	0	0	0			
Sep	9	3800	-1397	6	-30	12.4	160	2	0	0	-174	179	0	0	0			

Demands (TAF)

	Folsom				New Melones				Thermolito				Barker Slough				F. Banks		North Bay		Delta		Federal		Cross Valley		Fed Exchange		Fed Exchange		South Bay/San		State Dos		Spring Creek	
	Pumping	Folsom	South Canal	OID/SSJID	Contractors	o Demand	CCWD	CCWD	Slough	On-Peak	Off-Peak	Aqueduct	Canal	Dos Amigos	D.A.	San Felipe	Canal	Oneil	San Luis	Jose	Amigos	Tunnel														
Oct	10	11	2	0	0	51	10	0	0	0	0	75	24	0.5	0	0	0	0	0	4	95	0														
Nov	11	5	2	0	0	4	4	0	0	0	0	60	15	0.5	0	0	0	0	0	2	11	0														
Dec	12	5	2	0	0	51	5	0	0	0	0	31	12	0.5	0	0	0	0	1	15	30															
Jan	1	4	1	0	0	0	5	0	0	0	0	12	5	0.5	0	0	0	0	0	46	30															
Feb	2	4	1	0	0	0	4	0	0	0	0	10	3	0.5	0	0	0	0	0	30	30															
Mar	3	5	1	20	0	12	4	0	0	0	0	10	27	1	0	0	0	0	0	76	30															
Apr	4	7	1	55	0	11	3	0	0	0	0	10	32	1	0	0	0	1	94	30																
May	5	10	2	65	0	122	3	0	0	0	0	20	55	10.5	0	0	0	3	77	30																
Jun	6	14	2	70	0	128	3	0	0	0	0	30	61	5	0	0	0	3	125	75																
Jul	7	15	2	66	0	129	2	0	0	0	0	78	71	5.5	0	0	0	2	182	87																
Start Mont Aug	8	14	2	63	0	95	3	0	0	0	0	57	39	5	0	0	0	5	155	75																
Sep	9	12	2	36	0	69	9	0	0	0	0	56	34	2.7	0	0	0	2	100	40																
		108	19.6	375	0	824	75.5	0				456	364	0	37.9	0		23	1006																	



Inflows

	Trinity	Whiskeyto	Shasta	Folsom	New Melor Oroville		
Oct	10	14	3	240	21	35	120
Nov	11	32	7	300	33	35	170
Dec	12	58	16	380	70	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	103	8	300	240	150	240
Jul	7	28	3	230	140	45	150
Start Mont Aug	8	5	2	140	59	17	70
Sep	9	3	2	136	49	16	95

River Releases

	Trinity (cfs)	Clear Creeel	Goodwin (cfs)
Oct	10	372.5806	200
Nov	11	300	200
Dec	12	300	175
Jan	1	300	175
Feb	2	300	175
Mar	3	300	175
Apr	4	540	218
May	5	2924.323	216
Jun	6	783.1	150
Jul	7	450	120
Start Mont Aug	8	450	120
Sep	9	450	150

Hydrology

	Wilkin's Target (cfs)	Kes-Wilkin's Acc/Dep (cfs)	SJR Above Stan (TAF)	Sac Gross Acc/Dep (TAF)	Freeport				Yolo Bypass (TAF)	Transfer Inflow (TAF)	Delta Consumptive Use (TAF)	Delta Outflow (TAF)	X-Channel Gate	Feather Minimum	Feather Target	X-channel gate
					Treatmen t Plant (TAF)	East Side Streams (cfs)	Misc. Creeks (TAF)	East Side (cfs)								
Oct	10	3500	-164	47	100	13.3	210	29	0	0	-118	246	0	0	0	0 is open
Nov	11	3500	587	48	150	14	260	19	0	0	-55	268	1	0	0	1 is closed
Dec	12	4000	2615	48	330	13.2	160	11.1	0	0	-2	277	1	0	0	
Jan	1	4000	4309	52	700	13.8	2716	0.8	0	0	56	369	1	0	0	
Feb	2	0	4213	63	880	12	1422	0.9	0	0	37	633	1	0	0	
Mar	3	0	6473	69	970	12.1	7611	1.2	0	0	10	701	1	0	0	
Apr	4	4000	-21	55	310	11.5	2890	1.8	0	0	-63	678	1	0	0	
May	5	4000	-4122	60	-50	12.2	1888	2	0	0	-121	701	1	0	0	
Jun	6	4000	-5244	30	-185	12.5	1254	2	0	0	-191	559	0	0	0	
Jul	7	4000	-6233	26	-250	12.3	563	2	0	0	-268	492	0	0	0	
Start Mont Aug	8	2000	-3745	9	-255	12.4	325	2	0	0	-252	172	0	0	0	
Sep	9	3800	-1305	9	-30	12.4	336	2	0	0	-174	179	0	0	0	

Demands (TAF)

	Folsom		New Melones				Delta				Federal		Cross Valley		Fed Exchange	Fed Exchange	South Bay/San	State Dos	Spring Creek	
	Folsom Pumping	South Canal	OID/SSIID	CVP Contractors	Thermolit Demand	CCWD	Barker Slough	F. Banks On-Peak	F. Banks Off-Peak	North Bay Aqueduct	Mendota Canal	Dos Amigos	Fed O'N to D.A.	San Felipe	Canal	Oneil	San Luis	Jose	Amigos	Tunnel
Oct	10	10	2.4	10	0	51	8.4	4.6	0	0	40	8	0	3	0	0	0	7	143	90
Nov	11	7.5	1.8	0	0	4	9.2	3.1	0	0	20	5	0	2	0	0	0	5	103	60
Dec	12	6.25	1.2	0	0	51	9.15	2.9	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	10	5	0	2	0	0	0	1	71	28
Feb	2	6.25	1.2	0	0	0	7	1.5	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	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	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	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	70	56	0	3	0	0	0	11	164	60
Jul	7	15	4.5	70.2	0	129	11.05	6.6	0	0	80	66	0	3	0	0	0	8	167	80
Start Mont Aug	8	18.6	4.5	63	0	95	11.85	6.9	0	0	2	20	0	3	0	0	0	6	173	50
Sep	9	9.9	3.6	36	0	69	12.5	5.5	0	0	60	15	0	3	0	0	0	6	142	30