
From: "Yamanaka, Dan@DWR" <Dan.Yamanaka@water.ca.gov>
Date: June 26, 2015 at 4:48:26 PM PDT
To: "Grober, Les@Waterboards" <Les.Grober@waterboards.ca.gov>
Cc: "Stein, Russell@DWR" <Russell.Stein@water.ca.gov>, "Rea, Maria@NOAA" <Maria.Rea@noaa.gov>, "pfujitani@usbr.gov" <pfujitani@usbr.gov>, "Wilcox, Carl@Wildlife" <Carl.Wilcox@wildlife.ca.gov>, "Rico, Christine@Waterboards" <Christine.Rico@waterboards.ca.gov>, "Castleberry, Dan@fws" <Dan_Castleberry@fws.gov>, "Garwin.Yip@noaa.gov" <Garwin.Yip@noaa.gov>, "Riddle, Diane@Waterboards" <Diane.Riddle@waterboards.ca.gov>, "RMILLIGAN@usbr.gov" <RMILLIGAN@usbr.gov>, "Pettit, Tracy@DWR" <Tracy.Pettit@water.ca.gov>, "Mizell, James@DWR" <James.Mizell@water.ca.gov>, "Leahigh, John@DWR" <John.Leahigh@water.ca.gov>, "ekiteck@usbr.gov" <ekiteck@usbr.gov>, "PManza@usbr.gov" <PManza@usbr.gov>, "Hinojosa, Tracy@DWR" <Tracy.Hinojosa@water.ca.gov>, "Rabin, Larry@fws.gov" <Larry_Rabin@fws.gov>, "JSandberg@usbr.gov" <JSandberg@usbr.gov>, "Miller, Aaron@DWR" <Aaron.Miller@water.ca.gov>, "Giorgi, Bryant@DWR" <Bryant.Giorgi@water.ca.gov>, "Chu, Andy@DWR" <Andy.Chu@water.ca.gov>
Subject: **Conserved Water Accounting for May 2015 under TUCP Order**

Les--

In its April 6, 2015 Order Modifying an Order that Approved in Part and Denied in Part a Petition for Temporary Urgency Changes to License and Permit Terms and Conditions Requiring Compliance with Delta Water Quality Objectives in Response to Drought Conditions, the State Water Resources Control Board (Board) continued to require the Department of Water Resources (DWR) and the U.S. Bureau of Reclamation (Reclamation) to "calculate and maintain a record of the amount of water conserved through the changes authorized by this Order, as well as a record of where that water was conserved, submit such records on a monthly basis to the State Water Board within 20 working days after the first day of the following month." In compliance with this requirement, DWR and Reclamation are presenting the attached table showing daily accounting for conserved water under the Order for the month of May.

Under the terms of D-1641, in a Critical Year when the May 1 Sac River Index is greater than 8.1 MAF, a minimum 3-day running average of the daily Delta outflow of 7,100 cfs is required. In its April 6 Order, the Board extended the modification of this outflow requirement to 4,000 cfs on a 30-day average through June. The Order also modified the Western Delta agricultural standard compliance point from Emmaton to Threemile Slough. DSM2 modeling indicates that by increasing outflow to 7,100 cfs in May the Emmaton 14-day EC objective would also have been met.

The Projects operated under the Order for the entire month. The amount of water that would have been required to meet the unmodified D-1641 standards for all of May was determined to be approximately 119 TAF. This amount was conserved upstream by the Projects in May. The cumulative total water conserved under the TUCP in 2015 to date is approximately 401 TAF.

Please note that in previously submitted "Conserved Water Accounting" tables for 2015, the values in the Daily Combined Exports column incorporated the entire Clifton Court Forebay allotment including the diversion for the Byron-Bethany Irrigation District (BBID). Beginning with this report, the Daily Combined Exports amount will not include the BBID diversion amount. (Because these values are not used to calculate the amount of conserved water, but are

included for information only, DWR and Reclamation will not be immediately revising the previously submitted tables; instead, the revised tables will be provided at a later date.)

If you have any questions or would like more information, please contact me at (916) 574-0456 or Mr. Paul Fujitani at (916) 979-2197.

Sincerely,
Dan

Dan Yamanaka

Chief, Delta Compliance & Modeling Section
Operations Control Office
3310 El Camino Avenue, Suite 300
Sacramento, California 95821
(916) 574-0456 - Office

May Date	Historical Daily Outflow (cfs)	Historical 3-Day Outflow (cfs)	Historical Vernalis (cfs)	TUCP in effect?			Daily Combined Exports (cfs)	Historical Emmaton (14 day EC)	Modeled Emmaton (14 Day EC)	Additional Vernalis Required (cfs)	Additional Outflow Needed (cfs)	Water Shortage (TAF)
				X2 Outflow	EC	Vernalis						
5/1/2015	4240	5577	396	x	x	x	1195	2809	886	314	2546	5.67
5/2/2015	3649	4774	387	x	x	x	1016	2902	885	323	3128	6.84
5/3/2015	4093	3994	392	x	x	x	441	3004	885	318	2689	5.96
5/4/2015	3962	3901	397	x	x	x	808	3083	887	313	2825	6.22
5/5/2015	4918	4324	420	x	x	x	489	3092	894	290	1893	4.33
5/6/2015	4866	4582	411	x	x	x	855	3155	905	299	1935	4.43
5/7/2015	5246	5010	408	x	x	x	399	3191	922	302	1552	3.68
5/8/2015	5401	5171	399	x	x	x	877	3200	943	311	1388	3.37
5/9/2015	5800	5482	405	x	x	x	357	3254	964	305	995	2.58
5/10/2015	5387	5529	452	x	x	x	772	3354	980	258	1455	3.40
5/11/2015	5319	5502	458	x	x	x	479	3470	989	252	1529	3.53
5/12/2015	4859	5188	449	x	x	x	883	3529	993	261	1981	4.45
5/13/2015	5620	5266	401	x	x	x	551	3574	995	309	1171	2.94
5/14/2015	4994	5157	377	x	x	x	926	3634	999	333	1773	4.18
5/15/2015	5964	5526	409	x	x	x	540	3681	1011	301	835	2.25
5/16/2015	5447	5468	413	x	x	x	984	3676	1029	297	1356	3.28
5/17/2015	6090	5834	408	x	x	x	519	3649	1051	302	708	2.00
5/18/2015	5476	5671	440	x	x	x	991	3606	1075	270	1353	3.22
5/19/2015	5866	5811	467	x	x	x	738	3577	1096	243	991	2.45
5/20/2015	6199	5847	450	x	x	x	746	3561	1110	260	641	1.79
5/21/2015	6150	6072	422	x	x	x	718	3529	1118	288	662	1.88
5/22/2015	6422	6257	384	x	x	x	718	3449	1123	326	352	1.34
5/23/2015	6055	6209	385	x	x	x	725	3334	1125	325	720	2.07
5/24/2015	6057	6178	386	x	x	x	726	3256	1124	324	719	2.07
5/25/2015	5656	5923	411	x	x	x	734	3196	1121	299	1145	2.86
5/26/2015	5160	5624	435	x	x	x	1218	3153	1117	275	1665	3.85
5/27/2015	4710	5175	422	x	x	x	1233	3100	1107	288	2102	4.74
5/28/2015	4277	4716	385	x	x	x	1472	3039	1090	325	2498	5.60
5/29/2015	4460	4482	331	x	x	x	977	2957	1066	379	2261	5.24
5/30/2015	3857	4198	323	x	x	x	1402	2902	1039	387	2856	6.43
5/31/2015	3903	4073	254	x	x	x	980	2853	1010	456	2740	6.34

Monthly Average 5165 Total (TAF) 119.00

D1641 Standards	
Vernalis	710 cfs
X2 Outflow	7,100 cfs
Emmaton	2.78 umhos/cm

Running Total (TAF) 401.33