



# United States Department of the Interior

BUREAU OF RECLAMATION  
Central Valley Operations Office  
3310 El Camino Avenue, Suite 300  
Sacramento, California 95821

IN REPLY  
REFER TO:

CVO-400  
WTR-4.10

**JUL 10 2017**

VIA ELECTRONIC MAIL

Mr. Les Grober  
Deputy Director, Division of Water Rights  
State Water Resources Control Board  
P.O. Box 2000  
Sacramento, CA 95812

Subject: Monitoring and Reporting Program on Water Rights Order No. 90-5 (Water Rights)

Dear Mr. Grober:

For the month of June 2017, the temperature control point was set at Balls Ferry, per the June 2017, Sacramento River Temperature Plan.

During June 2017, the average daily water temperature compliance of 56.0°F or less was met at the Balls Ferry compliance point on the Sacramento River with the exception of June 18, 2017, which reached 56.2°F. The following actions were taken to avoid exceedences and bring temperature back into compliance: June 14, 2017, unit priorities were adjusted to favor the coldest water for June 16, 2017, on June 16, 2017, a Shasta Temperature Control Device (TCD) Middle Gate was opened to access cooler water, June 18, 2017, a TCD Upper Gate was closed to limit warmer water sources, and June 18, 2017, a TCD Middle Gate was opened to access cooler water as a result of an unplanned facility outage. The temperature excursion occurred during a coincident period of record air temperature and under predicted temperature lows/averages.

During the month of June 2017, the average monthly water temperature was 54.8°F at Balls Ferry.

Enclosed is the monitoring report for June 2017, under Order No. 90-5. The report contains the following data:

<b>Station</b>	<b>Description</b>
Shasta Inlets (R-1)	Water Temperature Profile
“	Turbidity, monthly, ntu
Shasta Dam (R-2)	Water Temperature, daily average, degrees F
“	Turbidity, ntu, monthly

<b>Station</b>	<b>Description</b>
Shasta Dam (R-2a)	Flow, average daily, cfs
Keswick (R-3) “	Water Temperature, daily average, degrees F Turbidity, ntu, monthly
Keswick (R-3a)	Flow, average daily, cfs
Spring Creek Power plant (R-4) “	Water Temperature, daily average, degrees F Turbidity, ntu, monthly Flow, average daily cfs
Control Point (R-5) Control Point	Water Temperature, daily average, degrees F Turbidity, ntu, monthly
Sacramento at Delta (R-6)	Water Temperature, monthly, degrees F Turbidity, ntu, monthly
McCloud (R-7) “	Water Temperature, monthly, degrees F Turbidity, ntu, monthly
Pit River (R-8) “	Water Temperature, monthly, degrees F Turbidity, ntu, monthly
Lewiston (R-9)	Water Temperature, daily average, degrees F
Lewiston (R-9a)	Flow, average daily, cfs

Please contact Ms. Randi Field at 916-979-2066, should you have any questions regarding this data.

Sincerely,



Elizabeth Kiteck  
Chief, Water Operations

Enclosures

cc: Mr. Kenneth Emanuel  
Division of Water Rights  
State Water Resources Control Board  
P.O. Box 2000  
Sacramento, CA 95812  
(w/encl)

Central Valley Operations Office

\*Data obtained from the California Data Exchange Center

\*\*Data calculated by the Central Valley Operations Office

\*\*\*Measurements taken by the Northern CA Area Office Personnel

**Water Temperature Data in Degrees F**

**June 2017**

Req. Sampling Frequency - Daily Average (Reading indicates daily average)							Req. Sampling Frequency - Monthly		
Date	Sta 2 Shd*	Sta 3 Kwk*	Sta 4 Spp**	Sta 5 Bsf**	Sta9 Lws*		Sta 6 Dlt***	Sta 7 Mss***	Sta 8 Pmn***
1	49.8	51.4	50.3	54.9	46.6				
2	49.7	51.4	50.4	54.9	46.7				
3	50.0	51.2	50.5	54.7	46.7				
4	49.9	51.3	50.6	54.6	47.2				
5	50.1	51.4	50.7	54.5	47.0				
6	49.9	51.4	50.8	54.7	46.8				
7	50.1	51.4	50.9	54.4	46.9				
8	49.8	51.2	51.1	53.1	46.5				
9	50.1	51.2	51.1	53.8	46.5				
10	49.8	51.3	51.2	53.9	46.5				
11	50.1	51.4	51.2	53.7	46.0				
12	49.9	51.4	51.3	53.8	45.7				
13	49.9	51.6	51.2	54.8	46.5		55.2		
14	49.9	51.9	51.3	54.9	46.9				
15	49.8	52.3	51.3	55.6	47.1				
16	49.5	51.8	51.4	55.9	47.4				60.5
17	49.3	51.8	51.3	56.0	47.9				
18	49.2	51.4	51.4	56.2	47.8				
19	48.9	51.3	51.4	55.4	47.7				
20	49.0	50.9	51.5	55.3	47.7				
21	49.1	51.0	51.5	55.5	47.8				
22	48.9	51.0	51.6	55.4	48.0				
23	49.0	50.8	51.7	54.9	48.0				
24	49.1	50.9	51.8	54.7	48.0				
25	49.0	51.0	51.9	55.2	48.0				
26	49.4	50.9	51.9	54.8	48.2				
27	49.5	51.2	52.0	54.5	48.4			58.0	
28	49.2	51.4	52.0	55.0	48.2				
29	49.4	51.2	52.0	54.9	48.4				
30	49.3	51.1	52.1	54.8	48.4				

Control Point: 6/1-6/30 BSF @ 56.0 DAT

**Cross Channel Gate Operation:**

June 01-23 closed

June 23-30 open

**Measurements taken by the Northern CA Area Office Personnel  
June 2017**

<b>TEMPERATURE</b>										
Sampling Frequency										
Every two weeks May 1 through November 30.										
Lake Elev	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
MSL	Temperature	Temperature	Temperature	Temperature	Temperature	Turbidity	Turbidity	Turbidity	Turbidity	Turbidity
	Degrees F	Degrees F	Degrees F	Degrees F	Degrees F	ntu	ntu	ntu	ntu	ntu
	(400 Feet Upstream of Dam)									
	<b>Time: 11:00</b>	<b>Time: 12:00</b>	<b>Time: 11:00</b>	<b>Time: 11:00</b>	<b>Time: 11:00</b>	<b>Time: 11:00</b>	<b>Time: 12:00</b>	<b>Time: 11:00</b>	<b>Time: 11:00</b>	<b>Time: 11:00</b>
625	45.1	45.2	45.2	45.2	45.2	19.1	19.0	19.0	20.3	20.3
650	45.1	45.2	45.2	45.2	45.2	18.8	18.3	18.3	19.9	19.9
675	45.2	45.2	45.2	45.3	45.3	18.6	17.8	17.8	19.9	19.9
700	45.2	45.3	45.3	45.3	45.3	17.8	17.3	17.3	19.4	19.4
725	45.3	45.4	45.4	45.4	45.4	18.1	17.4	17.4	18.2	18.2
750	45.4	45.5	45.5	45.5	45.5	17.6	17.1	17.1	16.3	16.3
775	45.6	45.7	45.7	45.7	45.7	17.4	16.7	16.7	16.3	16.3
800	45.8	45.9	45.8	45.9	45.9	16.7	15.9	15.9	15.8	15.8
825	46.0	46.2	46.0	46.1	46.1	15.9	15.3	15.3	15.0	15.0
850	46.3	46.7	46.4	46.4	46.4	13.9	14.3	14.3	14.1	14.1
875	46.7	47.4	47.0	47.1	47.1	10.3	11.3	11.3	11.3	11.3
900	47.5	48.2	48.2	48.4	48.4	7.4	6.9	6.9	6.4	6.4
925	48.8	49.4	49.5	49.4	49.4	5.0	4.8	4.8	5.0	5.0
950	49.7	50.2	50.5	50.6	50.6	4.6	3.9	3.9	3.7	3.7
975	51.2	52.2	52.9	53.2	53.2	3.4	2.8	2.8	3.0	3.0
1000	54.6	55.4	57.3	58.0	58.0	2.6	2.1	2.1	2.3	2.3
1025	57.8	60.3	63.8	62.5	62.5	2.5	1.5	1.5	1.7	1.7
1050	73.1	67.7	77.6	77.6	77.6	2.2	0.4	0.4	1.0	1.0
Lake Surface	73.4 @ 1059.62	68.0 @ 1058.76	77.6 @ 1057.62	77.7 @ 1056.10	77.7 @ 1056.10	1.8 @ 1059.62	1.7 @ 1058.76	0.1 @ 1057.62	0.7 @ 1056.10	0.7 @ 1056.10

<b>TURBIDITY</b>										
Sampling Frequency										
Monthly, except weekly May 1 through Sep 30, when turbidity at Station 2 is equal to or greater than 10 NTU										
Lake Elev	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5
MSL	Turbidity	Turbidity	Turbidity	Turbidity	Turbidity	Turbidity	Turbidity	Turbidity	Turbidity	Turbidity
	ntu	ntu	ntu	ntu	ntu	ntu	ntu	ntu	ntu	ntu
	(400 Feet Upstream of Dam)									
	<b>Time: 11:00</b>	<b>Time: 12:00</b>	<b>Time: 11:00</b>	<b>Time: 11:00</b>	<b>Time: 11:00</b>	<b>Time: 11:00</b>	<b>Time: 12:00</b>	<b>Time: 11:00</b>	<b>Time: 11:00</b>	<b>Time: 11:00</b>
625	20.6	19.1	19.0	19.0	19.0	19.0	18.3	18.3	19.9	19.9
650	20.0	18.8	18.3	18.3	18.3	17.8	17.8	17.8	19.9	19.9
675	19.0	18.6	17.8	17.8	17.8	17.3	17.3	17.3	19.4	19.4
700	19.4	18.1	17.4	17.4	17.4	16.3	15.3	15.3	15.0	15.0
725	18.8	17.6	17.1	17.1	17.1	14.2	14.3	14.3	14.1	14.1
750	18.3	17.4	16.7	16.7	16.7	10.4	11.3	11.3	11.3	11.3
775	18.6	17.4	16.7	16.7	16.7	7.1	6.9	6.9	6.4	6.4
800	18.0	16.7	15.9	15.9	15.9	5.7	4.8	4.8	5.0	5.0
825	17.4	15.9	15.3	15.3	15.3	4.6	3.9	3.9	3.7	3.7
850	16.3	13.9	14.3	14.3	14.3	4.6	2.8	2.8	3.0	3.0
875	14.2	10.3	11.3	11.3	11.3	3.6	2.1	2.1	2.3	2.3
900	10.4	7.4	6.9	6.9	6.9	3.7	1.5	1.5	1.7	1.7
925	7.1	5.0	4.8	4.8	4.8	3.0	0.4	0.4	1.0	1.0
950	5.7	4.6	3.9	3.9	3.9	2.2				
975	4.6	3.4	2.8	2.8	2.8					
1000	3.6	2.6	2.1	2.1	2.1					
1025	3.7	2.5	1.5	1.5	1.5					
1050	3.0	2.2	0.4	0.4	0.4					
Lake Surface	1.8 @ 1059.62	1.7 @ 1058.76	0.1 @ 1057.62	0.1 @ 1057.62	0.1 @ 1057.62	0.7 @ 1056.10	0.7 @ 1056.10	0.7 @ 1056.10	0.7 @ 1056.10	0.7 @ 1056.10

Central Valley Operations Office  
 Measurements taken by the Northern CA Area Office Personnel

**Summary of Turbidity and Dissolved Oxygen Water Sampling  
 June 2017**

Turbidity Measurements, NTU

Sampling Frequency

Monthly, except weekly from May 1 through September 30, when turbidity at Station 2 is equal to or greater than 10 NTU.

**Station**

	R-2	R-3a	R-4	R-5	R-6	R-7	R-8	
	Shasta Dam		Spring					
	Discharge	Keswick	Creek PP		Sacramento	McCloud	Pit	
Day	at Bridge	Discharge	Discharge	Clear Creek	River (DLT)	River	River	
1	8.2							
6			3.0					
8				6.4				
13					0.8			
14	6.2							
16							3.5	
22		5.5						
27						3.5		

Dissolved Oxygen, mg/l

Sampling Frequency

Every two weeks from May 1 through September 30; samples to be taken before 1000 hours.

**Station**

	R-2	R-3	R-5	Hour
	Shasta Dam			Time Sample
	Discharge	Keswick		Taken
Day	at Bridge	Discharge	Clear Creek	
1	11.2			10:00
8			11.5	13:20
14	11.8			11:07
22		12.3		7:45

Control Point: 6/1-6/30 BSF @ 56.0 DAT

UNITED STATES DEPARTMENT OF THE INTERIOR  
 U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA  
**SHASTA LAKE, DAM AND POWERPLANT**

RUN DATE: July 5, 2017

QG

**GENERATION RELEASE, CFS**

**WATER YEAR OCTOBER 2016 TO SEPTEMBER 2017**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	6,289	4,929	4,122	5,765	18,164	18,613	9,138	8,534	8,655			
2	6,463	4,805	4,181	5,467	18,257	19,433	8,916	7,407	8,250			
3	6,942	4,257	4,630	4,764	18,708	18,909	8,346	6,498	8,864			
4	6,469	4,132	4,570	3,401	18,806	18,656	8,960	4,939	8,675			
5	6,546	3,985	4,123	3,865	18,609	19,005	8,875	4,285	9,573			
6	5,865	4,666	4,054	4,285	18,763	18,880	8,577	3,909	8,769			
7	4,953	4,429	4,088	8,401	18,323	18,041	7,181	8,544	8,682			
8	6,060	4,387	4,979	11,517	17,804	17,999	8,741	9,211	7,706			
9	6,069	3,948	5,086	9,821	15,665	16,282	8,620	9,752	7,754			
10	5,860	3,670	4,720	9,158	15,331	13,566	8,816	9,129	7,360			
11	6,325	4,016	4,126	12,026	17,378	11,446	8,366	8,624	8,007			
12	6,275	4,279	3,453	18,778	17,716	9,556	10,318	8,628	7,800			
13	5,812	4,781	3,964	17,022	18,573	7,667	13,679	8,965	6,926			
14	6,180	4,605	3,960	18,722	18,464	8,523	13,615	10,082	7,311			
15	5,544	4,948	1,657	18,490	18,653	7,245	13,502	9,565	7,596			
16	6,164	5,005	2,446	18,236	18,669	6,079	13,779	8,896	6,784			
17	6,027	4,610	2,801	18,215	19,050	6,497	14,001	9,578	6,730			
18	5,192	4,023	2,871	17,665	19,430	6,412	13,659	10,061	8,413			
19	4,812	4,247	2,656	17,799	18,887	6,703	13,857	9,004	7,878			
20	5,304	4,378	3,422	18,125	18,688	6,592	14,202	9,023	8,356			
21	5,789	4,357	7,632	18,065	18,948	5,997	14,493	9,390	8,973			
22	5,733	4,673	7,859	18,584	19,369	4,845	15,458	9,173	8,529			
23	5,549	4,642	9,317	18,517	19,679	6,213	15,228	9,246	8,453			
24	5,367	4,159	9,866	17,848	19,804	6,131	16,893	9,975	8,255			
25	4,817	4,461	9,186	18,354	19,768	5,675	16,436	8,041	7,278			
26	4,817	4,341	9,346	17,930	19,346	6,851	17,351	8,885	8,557			
27	4,791	4,427	8,207	18,390	19,604	7,480	16,969	9,044	7,987			
28	4,057	4,238	8,682	18,457	19,393	7,390	12,334	8,489	8,599			
29	3,861	4,423	9,191	18,487		9,551	11,642	8,596	8,237			
30	5,475	4,779	8,429	18,146		9,117	10,678	9,061	8,466			
31	4,387		7,462	18,566		8,778		8,290				
<b>TOTAL</b>	<b>173,794</b>	<b>132,600</b>	<b>171,086</b>	<b>442,866</b>	<b>519,849</b>	<b>334,132</b>	<b>362,630</b>	<b>262,824</b>	<b>243,423</b>			
<b>MEAN</b>	<b>5,606</b>	<b>4,420</b>	<b>5,519</b>	<b>14,286</b>	<b>18,566</b>	<b>10,778</b>	<b>12,088</b>	<b>8,478</b>	<b>8,114</b>			
<b>MAX</b>	<b>6,942</b>	<b>5,005</b>	<b>9,866</b>	<b>18,778</b>	<b>19,804</b>	<b>19,433</b>	<b>17,351</b>	<b>10,082</b>	<b>9,573</b>			
<b>MIN</b>	<b>3,861</b>	<b>3,670</b>	<b>1,657</b>	<b>3,401</b>	<b>15,331</b>	<b>4,845</b>	<b>7,181</b>	<b>3,909</b>	<b>6,730</b>			
<b>WATER YEAR TOTALS</b>												
<b>TOTAL</b>	<b>2,643,204</b>											
<b>DAILY MEAN</b>	<b>9,682</b>											
<b>DAILY MAX</b>	<b>19,804 02/24/2017</b>											
<b>DAILY MIN</b>	<b>1,657 12/15/2016</b>											

UNITED STATES DEPARTMENT OF THE INTERIOR  
 U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA  
**KESWICK DAM, RESERVOIR, AND POWERPLANT**

RUN DATE: July 5, 2017

QT

TOTAL RELEASE, CFS

WATER YEAR OCTOBER 2016 TO SEPTEMBER 2017

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7,368	4,950	4,816	6,179	21,870	66,365	8,737	9,068	10,043			
2	7,366	5,147	4,832	5,978	21,947	56,516	8,627	7,786	10,572			
3	7,349	5,023	4,842	5,304	22,318	47,139	8,665	6,298	10,569			
4	7,021	4,831	4,840	4,756	22,445	40,147	8,689	5,200	10,521			
5	7,013	4,841	4,841	4,776	22,619	33,474	8,694	4,829	10,474			
6	6,764	4,841	4,841	4,792	27,729	28,177	8,691	4,766	10,517			
7	6,751	4,841	4,838	9,531	25,848	23,006	9,050	11,736	10,531			
8	6,756	4,840	4,835	13,032	21,361	18,958	8,812	12,356	9,736			
9	6,751	4,854	4,840	13,339	17,284	15,948	8,770	12,178	9,581			
10	6,510	4,866	4,839	13,479	38,612	13,659	8,698	12,230	9,587			
11	6,505	4,866	4,837	16,048	49,030	12,190	8,937	12,182	9,515			
12	6,537	4,866	4,841	32,098	59,280	10,960	11,281	12,414	9,578			
13	6,545	4,865	4,840	32,404	67,438	9,632	17,654	12,754	9,533			
14	6,542	4,863	4,842	32,383	73,966	9,401	20,955	12,149	9,529			
15	6,519	4,779	4,997	32,056	65,398	8,109	22,556	12,107	9,544			
16	6,515	4,865	4,946	31,833	46,123	7,997	22,460	12,235	9,536			
17	6,519	4,866	4,889	31,987	53,728	7,928	22,451	12,690	9,459			
18	6,232	4,864	4,891	28,724	45,624	7,857	25,572	12,688	9,191			
19	6,222	4,866	4,890	25,912	45,427	7,697	26,855	12,688	9,330			
20	6,225	4,862	4,870	25,968	26,418	7,697	26,377	12,692	9,541			
21	5,770	4,865	9,706	26,456	29,828	7,702	26,352	12,691	9,540			
22	5,495	4,864	9,852	25,898	57,422	7,816	26,899	12,105	9,503			
23	5,493	4,864	9,753	25,617	66,552	8,942	28,032	11,673	9,450			
24	5,444	4,866	9,762	25,936	68,035	9,091	28,046	10,982	9,536			
25	5,346	4,861	9,760	25,424	68,631	9,141	22,653	10,175	9,496			
26	4,888	4,814	9,762	26,751	68,906	8,887	18,492	10,067	9,466			
27	4,887	4,815	9,825	26,226	68,287	8,886	15,477	10,069	9,467			
28	4,889	4,810	9,839	22,215	68,444	8,889	12,929	10,193	9,422			
29	4,889	4,816	9,836	21,646		8,891	11,190	10,182	9,455			
30	4,864	4,816	8,527	21,790		8,889	10,065	10,178	9,380			
31	4,864		7,175	21,762		8,679		9,844				
<b>TOTAL</b>	<b>190,839</b>	<b>145,987</b>	<b>201,004</b>	<b>640,300</b>	<b>1,270,570</b>	<b>528,670</b>	<b>492,666</b>	<b>329,205</b>	<b>291,602</b>			
<b>MEAN</b>	<b>6,156</b>	<b>4,866</b>	<b>6,484</b>	<b>20,655</b>	<b>45,378</b>	<b>17,054</b>	<b>16,422</b>	<b>10,620</b>	<b>9,720</b>			
<b>MAX</b>	<b>7,368</b>	<b>5,147</b>	<b>9,852</b>	<b>32,404</b>	<b>73,966</b>	<b>66,365</b>	<b>28,046</b>	<b>12,754</b>	<b>10,572</b>			
<b>MIN</b>	<b>4,864</b>	<b>4,779</b>	<b>4,816</b>	<b>4,756</b>	<b>17,284</b>	<b>7,697</b>	<b>8,627</b>	<b>4,766</b>	<b>9,191</b>			
<b>WATER YEAR TOTALS</b>												
<b>TOTAL</b>	<b>4,090,843</b>											
<b>DAILY MEAN</b>	<b>14,985</b>											
<b>DAILY MAX</b>	<b>73,966 02/14/2017</b>											
<b>DAILY MIN</b>	<b>4,756 01/04/2017</b>											

UNITED STATES DEPARTMENT OF THE INTERIOR  
 U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA  
**LEWISTON DAM, LAKE, AND JUDGE FRANCIS CARR POWERPLANT**

RUN DATE: July 5, 2017

**QR**

**RELEASE TO RIVER, CFS**

**WATER YEAR OCTOBER 2016 TO SEPTEMBER 2017**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	466	313	310	306	290	325	316	6,033	4,171			
2	461	320	311	307	290	324	315	4,403	4,045			
3	440	319	307	310	291	312	315	3,339	3,956			
4	440	317	304	315	291	313	315	2,786	3,874			
5	448	316	306	312	291	316	1,037	2,502	3,780			
6	450	316	305	313	292	316	1,511	2,228	3,715			
7	450	314	306	313	298	315	1,519	2,091	3,588			
8	446	302	306	318	296	311	1,522	2,217	3,515			
9	447	311	306	318	296	314	1,517	2,424	3,379			
10	449	303	308	316	312	312	1,528	4,865	3,328			
11	463	304	309	314	320	313	1,534	5,423	3,249			
12	465	304	308	316	318	317	1,540	5,427	3,183			
13	455	302	308	315	315	316	1,515	5,438	3,088			
14	451	321	308	320	324	315	1,508	5,497	3,006			
15	447	311	313	324	333	316	1,509	5,301	2,898			
16	445	310	311	327	334	317	1,507	5,026	2,766			
17	408	313	311	324	335	316	1,507	4,971	2,702			
18	330	314	312	326	334	317	1,511	4,905	2,660			
19	301	313	309	326	339	315	1,336	4,744	2,572			
20	301	312	307	326	338	313	757	4,686	2,517			
21	300	313	303	324	335	315	393	4,521	2,400			
22	302	311	306	326	334	316	539	4,380	2,361			
23	305	309	308	325	337	316	1,643	4,203	2,324			
24	306	307	308	334	338	317	2,988	4,359	2,229			
25	305	311	307	333	330	318	6,006	4,260	2,171			
26	317	313	306	317	293	320	9,629	4,397	2,048			
27	321	311	307	317	290	317	11,029	4,279	1,979			
28	309	311	306	317	326	316	11,129	4,417	1,978			
29	308	311	307	313		317	10,032	4,263	1,982			
30	309	310	307	290		317	8,000	4,359	1,978			
31	308		306	290		316		4,310				
<b>TOTAL</b>	<b>11,953</b>	<b>9,342</b>	<b>9,536</b>	<b>9,832</b>	<b>8,820</b>	<b>9,798</b>	<b>85,507</b>	<b>132,054</b>	<b>87,442</b>			
<b>MEAN</b>	<b>386</b>	<b>311</b>	<b>308</b>	<b>317</b>	<b>315</b>	<b>316</b>	<b>2,850</b>	<b>4,260</b>	<b>2,915</b>			
<b>MAX</b>	<b>466</b>	<b>321</b>	<b>313</b>	<b>334</b>	<b>339</b>	<b>325</b>	<b>11,129</b>	<b>6,033</b>	<b>4,171</b>			
<b>MIN</b>	<b>300</b>	<b>302</b>	<b>303</b>	<b>290</b>	<b>290</b>	<b>311</b>	<b>315</b>	<b>2,091</b>	<b>1,978</b>			
<b>WATER YEAR TOTALS</b>												
<b>TOTAL</b>	<b>364,284</b>											
<b>DAILY MEAN</b>	<b>1,334</b>											
<b>DAILY MAX</b>	<b>11,129</b> <b>04/28/2017</b>											
<b>DAILY MIN</b>	<b>290</b> <b>01/30/2017</b>											



UNITED STATES DEPARTMENT OF THE INTERIOR  
 U.S. BUREAU OF RECLAMATION-CENTRAL VALLEY PROJECT-CALIFORNIA  
**WHISKEYTOWN DAM, LAKE, AND SPRING CREEK POWERPLANT**

RUN DATE: July 5, 2017

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**GENERATION RELEASE, CFS**

**WATER YEAR OCTOBER 2016 TO SEPTEMBER 2017**

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	746	18	14	15	2,665	3,513	14	580	1,881			
2	349	14	293	223	3,047	3,534	852	111	1,654			
3	276	530	14	602	2,256	1,058	1,105	16	1,650			
4	454	481	14	859	2,033	1,051	932	14	1,660			
5	309	519	14	25	1,680	865	1,190	457	1,158			
6	808	14	62	14	1,487	1,038	806	780	1,568			
7	1,036	14	220	683	2,028	1,645	2,093	2,853	1,341			
8	398	31	215	1,255	2,004	1,694	808	2,858	2,265			
9	292	471	16	3,051	1,108	1,792	912	3,022	1,648			
10	292	654	130	3,570	2,697	1,838	779	3,617	1,731			
11	365	183	14	3,354	3,004	1,474	873	3,419	1,876			
12	417	180	414	866	2,117	1,412	839	3,332	1,696			
13	380	23	393	1,641	1,928	1,460	660	3,065	2,358			
14	14	166	583	444	2,495	695	1,057	2,856	1,967			
15	362	35	2,090	854	1,143	1,934	1,468	3,424	2,207			
16	417	86	2,161	190	1,315	1,692	1,193	3,339	2,289			
17	658	164	1,723	422	1,250	1,372	1,037	3,159	2,543			
18	1,086	170	1,674	1,069	14	1,368	681	2,817	1,277			
19	802	193	1,821	702	1,130	1,366	1,262	3,197	1,858			
20	730	135	703	1,405	2,702	1,441	833	3,152	1,175			
21	295	14	519	1,482	2,415	1,659	572	3,021	1,175			
22	16	336	475	719	2,484	3,192	130	3,001	1,572			
23	14	511	122	857	2,156	2,446	67	3,188	1,646			
24	14	238	315	1,272	2,104	2,875	219	1,810	1,661			
25	14	311	152	819	2,096	3,250	38	2,363	2,181			
26	19	171	200	1,322	3,615	2,855	163	1,288	1,786			
27	191	280	1,049	1,116	3,767	1,701	141	2,278	1,957			
28	14	344	353	997	3,505	1,713	903	2,031	999			
29	14	14	164	2,235	44	44	668	1,643	1,804			
30	14	14	82	2,514	199	199	422	1,809	1,606			
31	989	25	25	2,320	239	239		2,298				
<b>TOTAL</b>	<b>11,785</b>	<b>6,314</b>	<b>16,024</b>	<b>36,897</b>	<b>60,245</b>	<b>52,415</b>	<b>22,717</b>	<b>70,798</b>	<b>52,189</b>			
<b>MEAN</b>	<b>380</b>	<b>210</b>	<b>517</b>	<b>1,190</b>	<b>2,152</b>	<b>1,691</b>	<b>757</b>	<b>2,284</b>	<b>1,740</b>			
<b>MAX</b>	<b>1,086</b>	<b>654</b>	<b>2,161</b>	<b>3,570</b>	<b>3,767</b>	<b>3,534</b>	<b>2,093</b>	<b>3,617</b>	<b>2,543</b>			
<b>MIN</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>14</b>	<b>44</b>	<b>14</b>	<b>14</b>	<b>999</b>			

**WATER YEAR TOTALS**

<b>TOTAL</b>	<b>329,384</b>
<b>DAILY MEAN</b>	<b>1,207</b>
<b>DAILY MAX</b>	<b>3,767</b>
<b>DAILY MIN</b>	<b>14</b>
	<b>02/27/2017</b>
	<b>10/14/2016</b>