

**FRIANT WATER AUTHORITY
SAN JOAQUIN RIVER AND ASSOCIATED WATER DATA**

		THIS YEAR 08/09/17	LAST WEEK	LAST YEAR 08/10/16
RESERVOIR STORAGE (A.F.) CAPACITY				STORAGE
Southern California Edison:				
Vermillion (Edison)	125,000	111,220	109,911	76,247
Florence	64,400	29,380	40,039	22,599
Huntington	89,000	88,417	87,523	87,782
Shaver	<u>135,300</u>	<u>126,608</u>	<u>123,654</u>	<u>126,776</u>
Sub-total (Big Creek)	413,700	355,625	361,127	313,404
Mammoth Pool	122,000	118,906	120,241	76,509
Redinger	<u>26,100</u>	<u>23,915</u>	<u>23,885</u>	<u>24,172</u>
Sub-total Southern California Edison	<u>561,800</u>	<u>498,446</u>	<u>505,253</u>	<u>414,085</u>
Pacific Gas & Electric:				
Crane Valley (Bass Lake)	45,400	46,046	45,960	42,939
Kerckhoff	<u>4,200</u>	<u>3,583</u>	<u>3,575</u>	<u>3,648</u>
Sub-total P G & E	<u>49,600</u>	<u>49,629</u>	<u>49,535</u>	<u>46,587</u>
TOTAL UPSTREAM STORAGE	611,400	548,075	554,788	460,672
MILLERTON LAKE	<u>520,500</u>	<u>481,916</u>	<u>498,008</u>	<u>306,420</u>
TOTAL STORAGE	1,131,900	1,029,991	1,052,796	767,092
INFLOW & RELEASE DATA (C.F.S.)				
Millerton Releases:				
Madera Canal		806	867	493
Friant-Kern Canal		3,740	4,132	2,179
San Joaquin River		351	350	792
Spillway		<u>0</u>	<u>0</u>	<u>0</u>
Total Millerton Releases		4,897	5,349	3,464
Actual Millerton Inflow		3,792	3,910	1,168
Computed Natural River (@Friant)		2,792	3,239	556
SAN JOAQUIN RIVER (A.F.)				
This Month:				
Actual to-date		51,942	6,425	6,446
Forecasted DWR 50% forecasts.		790,000	790,000	16,800
April/July Period:				
Actual to-date		2,641,089	2,641,089	899,001
Forecasted DWR 50% forecasts.		2,520,000	2,520,000	884,000
Last Year Actual				892,555
Water Year:				
Actual to-date		4,278,080	4,232,563	1,289,843
Forecasted DWR 50% forecasts.		4,195,000	4,195,000	1,314,000
Last Year Actual				1,300,984
ESTIMATED WATER YET TO BE DELIVERED (A.F.)				
Contract Year Ending February 28		496,303*	525,772*	143,645

*Figure is based on 100% Class I, minus District usage YTD.

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PRECIPITATION DATA

REPORTING STATIONS:	AVERAGE (INCHES)	THIS YEAR 08/09/17		LAST YEAR 08/10/16	
		ACCUMULATIVE TO DATE (INCHES/PERCENT AVG)			
HUNTINGTON					
This Month	0.19	0.00 /	0	0.00 /	0
Seasonal Average*	0.49	0.00 /	0	0.00 /	0
Annual Average	42.65	0.00 /	0	0.00 /	0
CRANE VALLEY					
This Month	0.07	0.00 /	0	0.00 /	0
Seasonal Average*	0.13	0.00 /	0	0.00 /	0
Annual Average	40.54	0.00 /	0	0.00 /	0
FRIANT					
This Month	0.02	0.00 /	0	0.00 /	0
Seasonal Average*	0.03	0.00 /	0	0.00 /	0
Annual Average	14.49	0.00 /	0	0.00 /	0

* Seasonal Average (July - June) is through the current month

** SCE updated Huntington Precipitation

MISC RIVER/RESERVOIR	CAPACITY (A.F.)	STORAGE (A.F.)	RELEASE (C.F.S.)	INFLOW (C.F.S.)
Chowchilla/Buchanan	150,000	110,982	131	0
Fresno/Hidden	90,000	39,539	274	5
Kings/Pine Flat	1,000,000	845,006	6,509	3,075
Kaweah/Terminus	185,000	76,513	1,937	361
Tule/Success	82,314	65,754	732	84
Kern/Isabella	570,000	274,035	2,259	1,405

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CVP/SWP SAN LUIS OPERATIONS

		THIS YEAR 08/09/17	LAST WEEK FLOWRATE (C.F.S.)	LAST YEAR 08/10/16 Average
PUMPING INSTANTANEOUS				
	MAX. FLOWRATE (C.F.S.)			
Tracy P.P.	4,600	4,360	4,373	1,677
Banks P.P.	10,000	7,125	7,028	7,131
MONTH TO DATE				
Tracy P.P.		68,799	8,674	30,088
Banks P.P.		111,094	13,941	119,249
SEASON TO DATE (Since October 1)				
Tracy P.P.		2,264,714	2,213,667	1,001,653
Banks P.P.		2,946,105	2,855,553	1,325,964
SAN LUIS RESERVOIR CAPACITY				
	(A.F.)		(A.F.)	
Federal	980,000	782,662	807,695	38,555
State	1,060,000	1,108,326	1,111,268	171,292
Total	2,040,000	1,890,988	1,918,963	209,847
SAN LUIS RESERVOIR				
Federal		(3,846)	(3,397)	(475)
State		2,978	(2,216)	2,541

SACRAMENTO-SAN JOAQUIN DELTA FLOW INDICES

	FLOWRATE (C.F.S.)
Delta Outflow Index	10,343
Sacramento River @ Freeport	18,468
San Joaquin River @ Vernalis	6,091
Total Delta Inflow	26,119

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SIERRA SNOW SENSOR DATA

08/09/17

REPORTING STATION	ELEVATION (FT.)	WATER CONTENT (IN.)	APRIL 1st AVERAGE (IN.)	PERCENT OF APRIL 1st AVERAGE
San Joaquin River				
Kaiser Pass	9,200	0.0	37.8	0%
Green Mountain	7,900	0.0	30.8	0%
Tamarack	7,600	0.0	30.5	0%
Chilkoot Meadow	7,150	0.0	38.0	0%
Huntington Lake	7,000	0.0	20.1	0%
Graveyard Meadow	6,900	N.A.	N.A.	N.A.
Poison Ridge	6,900	0.0	28.9	0%
Mammoth Pass	9,300	0.0	42.4	0%
San Joaquin River Average		0.0	32.6	0%
San Joaquin River Areal * Weighted Average		0.0	34.3	0%
Kings River				
Charlotte Lake	10,400	N.A.	27.5	N.A.
State Lakes	10,400	0.0	29.0	0%
Mitchell Meadow	9,900	0.0	32.9	0%
Upper Burnt Corral	9,700	0.0	34.6	0%
W. Woodchuck Mdw.	9,100	0.0	32.8	0%
Big Meadows	7,600	0.0	25.9	0%
Kings River Average		0.0	30.5	0%
Kaweah River				
Farewell Gap	9,500	N.A.	34.5	N.A.
Giant Forest	6,650	0.0	10.0	0%
Kaweah River Average		0.0	22.3	0%
Tule River				
Quaking Aspen	7,200	0.0	21.0	0%
Kern River				
Upper Tyndall Crk	11,450	N.A.	27.7	N.A.
Crabtree	10,700	N.A.	19.8	N.A.
Chagoopa Plateau	10,300	0.0	21.8	0%
Pascoes	9,150	0.0	24.9	0%
Tunnel	8,950	0.0	15.6	0%
Wet Meadow	8,950	N.A.	30.3	N.A.
Beach Meadow	7,650	0.0	11.0	0%
Kern River Average		0.0	21.6	0%

* Reporting stations weighted using Thiessen Polygon Method to account for representative watershed area.

** April 1st averages are based on measurements made during years 1951-2000 implemented Feb 2002.

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CIMIS EVAPOTRANSPIRATION RATES

REPORTING STATION #	REPORTING STATION	YESTERDAY 8/8/2017 (Inches)	TOTAL PAST 7 DAYS (Inches)	NORMAL PAST 7 DAYS (Inches)	VARIANCE FROM NORMAL (%)	NORMAL NEXT 7 DAYS* (Inches)
5	Shafter	0.25	1.46	1.75	-17	1.70
15	Stratford	0.29	1.83	1.91	-4	1.87
39	Parlier	0.22	1.30	1.69	-23	1.65
80	Fresno State	0.28	1.78	1.86	-4	1.81
86	Lindcove	0.25	1.56	1.72	-9	1.67
125	Arvin-Edison	0.30	1.90	2.03	-6	1.97
142	Orange Cove	0.29	1.87	1.89	-1	1.87
148	Merced	0.25	1.62	1.82	2	1.78
169	Porterville	0.24	1.49	1.73	-14	1.68
182	Delano	0.26	1.54	1.75	-12	1.73
188	Madera II	0.24	1.58	1.67	-5	1.65

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CROP COEFFICIENTS

9-Aug-17

Crop (Description)	Today	Avg. Prev. 7 Days	Avg. Next 7 Days
Alfalfa (average)	0.95	0.95	0.95
Almonds (Feb. 20 leafout, Nov. 15 leafdrop)	0.94	0.95	0.93
Almonds (Mar. 1 leafout, Nov. 15 leafdrop)	0.95	0.95	0.94
Beans (Apr. 1 plant date, Aug. 1 harvest)	0.00	0.00	0.00
Beans (May 1 plant date, Aug. 15 harvest)	0.49	0.62	0.32
Beans (Jun. 1 plant date, Sep. 15 harvest)	1.11	1.10	1.11
Citrus (year round)	0.65	0.65	0.65
Corn (Apr. 15 plant date, Sep. 15 harvest)	1.06	1.09	1.00
Cotton (Apr. 1 plant date, Sep. 20 defoliate)	1.11	1.19	1.04
Cotton (Apr. 15 plant date, Oct. 1 defoliate)	1.24	1.25	1.22
Cotton (May 1 plant date, Oct. 1 defoliate)	1.25	1.26	1.24
Wheat, Oats, Barley (Dec. 1 plant date, Jun. 1 harvest)	0.00	0.00	0.00
Grapes, Raisin (Mar. 15 leafout, Oct. 15 leafdrop)	0.63	0.63	0.63
Grapes, Table (Mar. 15 leafout, Oct. 15 leafdrop)	0.80	0.80	0.80
Kiwi (Mar. 15 leafout, Nov. 1 leafdrop)	1.00	1.00	1.00
Melons (Apr. 1 plant date, Jul. 15 harvest)	0.00	0.00	0.00
Melons (May 1 plant date, Aug. 15 harvest)	0.36	0.53	0.18
Melons (Jun. 1 plant date, Sep. 20 harvest)	0.87	0.77	0.90
Melons (Jul. 1 plant date, Oct. 10 harvest)	0.24	0.17	0.34
Olives (year round)	0.75	0.75	0.75
Pasture Grass	0.86	0.86	0.85
Pistachio (Apr. 1 leafout, Nov. 15 leafdrop)	1.15	1.17	1.13
Safflower (Mar. 1 plant date, Aug. 1 harvest)	0.00	0.00	0.00
Low Chilling Stone Fruit (Feb. 15 leafout, Dec. 1 leafdrop)	0.95	0.95	0.95
Stone Fruit (Mar. 1 leafout, Nov. 15 leafdrop)			
[Peach, Nectarine, Plum, Apricot]	0.95	0.95	0.95
Late Stone Fruit (Mar. 16 leafout, Nov. 1 leafdrop)	0.95	0.95	0.95
Soft Fruit (Apr. 1 leafout, Nov. 15 leafdrop)			
[Apple, Pear]	0.97	0.97	0.97
Tomato (Mar. 1 plant date, Jul. 20 harvest)	0.00	0.00	0.00
Tomato (Apr. 1 plant date, July 30 harvest)	0.00	0.00	0.00
Walnut, Early (Mar. 15 leafout, Nov. 1 leafdrop)	1.15	1.15	1.15
Walnut, Late (Apr. 1 leafout, Nov. 1 leafdrop)	1.15	1.15	1.15

NOTE: This information is a reproduction of information compiled by Kings River Conservation District. This information is provided as a general guideline and may not exactly be reflective of all locations or varieties.

FRIANT WATER AUTHORITY
SAN JOAQUIN SNOW COURSE MEASUREMENTS

STATION NUMBER	REPORTING STATION	ELEVATION (FT.)	DATE MEASURED	DEPTH RECORDED (IN.)	WATER CONTENT (IN.)	DENSITY	APRIL 1 st AVERAGE (IN.)	APRIL 1 st AVERAGE (%)
183	Piute Pass	11,300	30-May	124.5	76.0	61%	36.6	208%
196	Chilkoot Lake	7,450	31-May	9.0	4.0	44%	35.9	11%
197	Chilkoot Meadow	7,150	31-May	17.5	9.5	54%	37.0	26%
Basin Average Percent of April 1st::								81%
June 1st:								255%