

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

		THIS YEAR 08/20/10	LAST WEEK	LAST YEAR 08/21/09
<b>RESERVOIR STORAGE (A.F.)</b>	<b>CAPACITY</b>	<b>STORAGE</b>		
<b>Southern California Edison:</b>				
Vermillion (Edison)	125,000	103,556	107,952	85,185
Florence	64,400	51,453	52,132	22,234
Huntington	89,000	87,658	88,261	87,864
Shaver	<u>135,300</u>	<u>105,453</u>	<u>115,793</u>	<u>106,458</u>
Sub-total (Big Creek)	413,700	348,120	364,138	301,741
Mammoth Pool	122,000	91,499	103,169	69,670
Redinger	<u>26,100</u>	<u>24,505</u>	<u>24,317</u>	<u>24,789</u>
Sub-total Southern California Edison	<u>561,800</u>	<u>464,124</u>	<u>491,624</u>	<u>396,200</u>
<b>Pacific Gas &amp; Electric:</b>				
Crane Valley (Bass Lake)	45,400	34,339	34,287	33,620
Kerckhoff	<u>4,200</u>	<u>3,559</u>	<u>3,884</u>	<u>3,675</u>
Sub-total P G & E	<u>49,600</u>	<u>37,898</u>	<u>38,171</u>	<u>37,295</u>
<b>TOTAL UPSTREAM STORAGE</b>	<b>611,400</b>	<b>502,022</b>	<b>529,795</b>	<b>433,495</b>
<b>MILLERTON LAKE</b>	<u><b>520,500</b></u>	<u><b>365,424</b></u>	<u><b>390,861</b></u>	<u><b>359,179</b></u>
<b>TOTAL STORAGE</b>	<b>1,131,900</b>	<b>867,446</b>	<b>920,656</b>	<b>792,674</b>
<b>INFLOW &amp; RELEASE DATA (C.F.S.)</b>				
<b>Millerton Releases:</b>				
Madera Canal		822	911	351
Friant-Kern Canal		3,402	3,408	2,482
San Joaquin River		352	349	225
Spillway		<u>0</u>	<u>0</u>	<u>0</u>
Total Millerton Releases		4,576	4,668	3,058
Actual Millerton Inflow		2,912	2,632	1,729
Computed Natural River (@Friant)		635	984	242
<b>SAN JOAQUIN RIVER (A.F.)</b>				
<b>This Month:</b>				
Actual to-date		32,875	22,792	21,023
Forecasted		40,000	40,000	103,000
<b>April/July Period:</b>				
Actual to-date		1,568,102	1,558,019	1,042,315
Forecasted		1,610,000	1,610,000	1,050,000
Last Year Actual				1,042,315
<b>Water Year:</b>				
Actual to-date		1,998,663	1,988,580	1,438,704
Forecasted		2,141,000	2,141,000	1,450,000
Last Year Actual				1,455,380
<b>ESTIMATED WATER YET TO BE DELIVERED (A.F.)</b>				
Contract Year Ending February 28		427,418*	480,684*	296,162

\*Figure is based on 100% Class I, 10% Class II, 44% Uncontrolled Class II, plus estimated carry over of 27,526 AF, minus District usage and SJR releases.

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**PRECIPITATION DATA**

REPORTING STATIONS:		THIS YEAR 08/20/10		LAST YEAR 08/21/09	
	AVERAGE (INCHES)	ACCUMULATIVE TO DATE (INCHES/PERCENT AVG)			
<b>HUNTINGTON</b>					
This Month	0.32	0.04	/	13	0.00 / 0
Seasonal Average*	0.32	0.04	/	13	0.00 / 0
Annual Average	42.73	0.04	/	0	0.00 / 0
<b>CRANE VALLEY</b>					
This Month	0.06	0.00	/	0	0.00 / 0
Seasonal Average*	0.06	0.00	/	0	0.00 / 0
Annual Average	40.62	0.00	/	0	0.00 / 0
<b>FRIANT</b>					
This Month	0.01	0.00	/	0	0.00 / 0
Seasonal Average*	0.01	0.00	/	0	0.00 / 0
Annual Average	14.33	0.00	/	0	0.00 / 0

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

MISC RIVER/RESERVOIR	CAPACITY (A.F.)	STORAGE (A.F.)	RELEASE (C.F.S.)	INFLOW (C.F.S.)
Chowchilla/Buchanan	150,000	46,243	0	8
Fresno/Hidden	90,000	39,939	156	83
Kings/Pine Flat	1,000,000	556,537	4,420	1,016
Kaweah/Terminus	185,000	45,290	1,083	159
Tule/Success	82,314	11,894	159	32
Kern/Isabella	570,000	246,625	1,807	462

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CVP/SWP SAN LUIS OPERATIONS

		THIS YEAR 08/20/10	LAST WEEK FLOWRATE (C.F.S.)	LAST YEAR 08/21/09 Average
PUMPING	MAX. FLOWRATE (C.F.S.)			
INSTANTANEOUS				
Tracy P.P.	4,600	4,161	4,135	4,194
Banks P.P.	10,000	6,340	7,099	3,467
MONTH TO DATE				
Tracy P.P.		140,446	82,822	147,691
Banks P.P.		232,565	138,430	150,758
SEASON TO DATE (Since October 1)				
Tracy P.P.		1,758,991	1,701,367	1,582,037
Banks P.P.		1,917,914	1,823,779	1,362,974
SAN LUIS RESERVOIR	CAPACITY (A.F.)		(A.F.)	
Federal	980,000	295,909	318,467	11,932
State	1,060,000	542,343	545,382	378,078
Total	2,040,000	838,252	863,849	390,010
SAN LUIS RESERVOIR		NET DAILY STORAGE CHANGE		
Federal		(3,115)	(3,508)	(1,067)
State		(1,416)	(20)	(2,721)

SACRAMENTO-SAN JOAQUIN DELTA FLOW INDICES

	FLOWRATE (C.F.S.)
Delta Outflow Index	3,434
Sacramento River @ Freeport	16,482
San Joaquin River @ Vernalis	1,070
Total Delta Inflow	18,687

FRIANT WATER AUTHORITY  
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SIERRA SNOW SENSOR DATA

08/20/10

REPORTING STATION	ELEVATION (FT.)	WATER CONTENT (IN.)	APRIL 1st AVERAGE (IN.)	PERCENT OF APRIL 1st AVERAGE
<b>San Joaquin River</b>				
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	0.0	18.8	0%
Poison Ridge	6,900	0.0	28.9	0%
Mammoth Pass	9,300	0.1	42.4	0%
San Joaquin River Average		0.0	30.9	0%
San Joaquin River Areal * Weighted Average		0.0	32.7	0%
<b>Kings River</b>				
Charlotte Lake	10,400	N.A.	27.5	N.A.
State Lakes	10,400	0.0	29.0	0%
Mitchell Meadow	9,900	N.A.	32.9	N.A.
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%
<b>Kaweah River</b>				
Farewell Gap	9,500	0.0	34.5	0%
Giant Forest	6,650	0.0	10.0	0%
Kaweah River Average		0.0	22.3	0%
<b>Tule River</b>				
Quaking Aspen	7,200	0.0	21.0	0%
<b>Kern River</b>				
Upper Tyndall Crk	11,450	0.0	27.7	0%
Crabtree	10,700	0.0	19.8	0%
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	0.0	30.3	0%
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.

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

**CIMIS EVAPOTRANSPIRATION RATES**

REPORTING STATION #	REPORTING STATION	YESTERDAY 8/19/2010 (Inches)	TOTAL PAST 7 DAYS (Inches)	NORMAL PAST 7 DAYS (Inches)	VARIANCE FROM NORMAL (%)	NORMAL NEXT 7 DAYS* (Inches)
5	Shafter/USDA	0.26	1.74	1.68	4	1.61
15	Stratford	0.28	1.87	1.75	7	1.67
39	Parlier	0.22	1.49	1.58	-6	1.49
80	Fresno State	0.26	1.78	1.73	3	1.63
86	Lindcove	0.25	1.67	1.64	2	1.54
125	Arvin-Edison	0.29	2.01	1.77	14	1.68
138	Famoso	0.26	1.73	1.77	-2	1.67
142	Orange Cove	0.27	1.83	1.74	5	1.65
145	Madera	0.25	1.73	1.94	-11	1.84
148	Merced	0.24	1.63	1.61	1	1.53
169	Porterville	0.25	1.66	1.69	-2	1.61
182	Delano	0.25	1.66	1.77	-6	1.67



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**CROP COEFFICIENTS**

20-Aug-10

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)	0.92	0.93	0.91
Almonds (Mar. 1 leafout, Nov. 15 leafdrop)	0.93	0.93	0.92
Beans (Apr. 1 plant date, Aug. 1 harvest)	0.00	0.00	0.00
Beans (May 1 plant date, Aug. 15 harvest)	0.00	0.14	0.00
Beans (Jun. 1 plant date, Sep. 15 harvest)	1.09	1.12	0.97
Citrus (year round)	0.65	0.65	0.65
Corn (Apr. 15 plant date, Sep. 15 harvest)	0.89	0.95	0.83
Cotton (Apr. 1 plant date, Sep. 20 defoliate)	0.90	0.98	0.82
Cotton (Apr. 15 plant date, Oct. 1 defoliate)	1.11	1.19	1.03
Cotton (May 1 plant date, Oct. 1 defoliate)	1.19	1.23	1.10
Wheat, Oats, Barley (Dec. 1 plant date, Jun. 1 harvest)	0.00	0.00	0.00
Grapes, Raisin (Mar. 15 leafout, Oct. 15 leafdrop)	0.62	0.63	0.59
Grapes, Table (Mar. 15 leafout, Oct. 15 leafdrop)	0.79	0.80	0.76
Kiwi (Mar. 15 leafout, Nov. 1 leafdrop)	0.99	1.00	0.98
Melons (Apr. 1 plant date, Jul. 15 harvest)	0.00	0.00	0.00
Melons (May 1 plant date, Aug. 15 harvest)	0.00	0.06	0.00
Melons (Jun. 1 plant date, Sep. 20 harvest)	0.90	0.90	0.90
Melons (Jul. 1 plant date, Oct. 10 harvest)	0.52	0.42	0.63
Olives (year round)	0.75	0.75	0.75
Pasture Grass	0.83	0.84	0.82
Pistachio (Apr. 1 leafout, Nov. 15 leafdrop)	1.09	1.12	1.05
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]	0.98	0.98	0.98
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 <sup>st</sup> AVERAGE (IN.)	APRIL 1 <sup>st</sup> AVERAGE (%)
183	Piute Pass	11,300	26-Apr	104.5	46.7	45%	37.9	123%
276	Pioneer Basin	10,400	3-May	80.1	36.0	45%	34.0	106%
185	Heart Lake	10,100	29-Apr	75.8	29.2	39%	27.9	105%
187	Rose Marie	10,000	29-Apr	79.0	32.8	42%	29.7	110%
190	Kaiser Pass	9,100	3-May	88.6	42.7	48%	39.0	109%
191	Dutch Lake	9,100	27-Apr	69.6	33.2	48%	28.1	118%
193	Cora Lakes	8,400	1-May	94.0	48.5	52%	36.3	134%
196	Chilkoot Lake	7,450	30-Apr	106.0	48.0	45%	36.8	130%
197	Chilkoot Meadow	7,150	30-Apr	113.0	52.0	46%	36.6	142%
199	Huntington Lake	7,000	26-Apr	67.8	32.0	47%	18.6	172%
200	Clover Meadow	7,000	1-May	56.0	29.4	52%	22.8	129%
201	Jackass Meadow	6,950	1-May	57.0	32.5	57%	24.0	135%
204	Poison Meadow	6,800	30-Apr	91.0	44.0	48%	24.8	177%
202	Chiquito Creek	6,800	1-May	57.0	29.0	51%	21.7	134%
Basin Average Percent of April 1st:								<b>130%</b>
May 1st:								<b>159%</b>