

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

		THIS YEAR 07/28/10	LAST WEEK	LAST YEAR 07/29/09
RESERVOIR STORAGE (A.F.) CAPACITY				STORAGE
Southern California Edison:				
Vermillion (Edison)	125,000	122,126	119,165	84,365
Florence	64,400	58,539	59,073	40,415
Huntington	89,000	87,421	87,525	87,922
Shaver	<u>135,300</u>	<u>122,624</u>	<u>128,722</u>	<u>123,316</u>
Sub-total (Big Creek)	413,700	390,710	394,485	336,018
Mammoth Pool	122,000	116,420	118,957	87,244
Redinger	<u>26,100</u>	<u>24,270</u>	<u>24,515</u>	<u>24,448</u>
Sub-total Southern California Edison	<u>561,800</u>	<u>531,400</u>	<u>537,957</u>	<u>447,710</u>
Pacific Gas & Electric:				
Crane Valley (Bass Lake)	45,400	34,370	34,463	34,113
Kerckhoff	<u>4,200</u>	<u>3,630</u>	<u>3,640</u>	<u>3,497</u>
Sub-total P G & E	<u>49,600</u>	<u>38,000</u>	<u>38,103</u>	<u>37,610</u>
TOTAL UPSTREAM STORAGE	611,400	569,400	576,060	485,320
MILLERTON LAKE	<u>520,500</u>	<u>440,617</u>	<u>466,595</u>	<u>445,309</u>
TOTAL STORAGE	1,131,900	1,010,017	1,042,655	930,629
INFLOW & RELEASE DATA (C.F.S.)				
Millerton Releases:				
Madera Canal		894	994	1,005
Friant-Kern Canal		3,608	3,250	3,029
San Joaquin River		349	348	245
Spillway		<u>0</u>	<u>0</u>	<u>0</u>
Total Millerton Releases		4,851	4,592	4,279
Actual Millerton Inflow		2,330	3,354	2,066
Computed Natural River (@Friant)		1,377	3,059	963
SAN JOAQUIN RIVER (A.F.)				
This Month:				
Actual to-date		228,648	197,684	91,070
Forecasted		300,000	300,000	103,000
April/July Period:				
Actual to-date		1,520,936	1,489,972	1,036,965
Forecasted		1,550,000	1,550,000	1,050,000
Last Year Actual				1,042,315
Water Year:				
Actual to-date		1,951,497	1,920,533	1,412,331
Forecasted		2,081,000	2,081,000	1,425,000
Last Year Actual				1,455,380
ESTIMATED WATER YET TO BE DELIVERED (A.F.)				
Contract Year Ending February 28		599,202*	585,123**	380,162*

*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.

**Figure is based on 100% Class I, 5% 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:	AVERAGE (INCHES)	THIS YEAR 07/28/10		LAST YEAR 07/29/09	
		ACCUMULATIVE TO DATE (INCHES/PERCENT AVG)			
HUNTINGTON					
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
CRANE VALLEY					
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
FRIANT					
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	51,167	203	0
Fresno/Hidden	90,000	48,974	304	14
Kings/Pine Flat	1,000,000	749,029	7,018	2,623
Kaweah/Terminus	185,000	102,449	2,065	414
Tule/Success	82,314	26,211	436	63
Kern/Isabella	570,000	303,224	2,003	1,040

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CVP/SWP SAN LUIS OPERATIONS

		THIS YEAR 07/28/10	LAST WEEK FLOWRATE (C.F.S.)	LAST YEAR 07/29/09 Average
PUMPING	MAX. FLOWRATE (C.F.S.)			
INSTANTANEOUS				
Tracy P.P.	4,600	4,248	4,251	4,256
Banks P.P.	10,000	6,010	4,263	5,326
MONTH TO DATE				
Tracy P.P.		220,421	162,402	215,463
Banks P.P.		281,208	210,421	345,451
SEASON TO DATE (Since October 1)				
Tracy P.P.		1,585,260	1,527,241	1,409,410
Banks P.P.		1,638,198	1,567,411	1,175,207
SAN LUIS RESERVOIR	CAPACITY (A.F.)		(A.F.)	
Federal	980,000	421,040	476,345	(776)
State	1,060,000	517,125	531,736	368,616
Total	2,040,000	938,165	1,008,081	367,840
SAN LUIS RESERVOIR		NET DAILY STORAGE CHANGE		
Federal		(8,114)	(7,754)	(524)
State		(1,701)	(5,824)	(2,764)

SACRAMENTO-SAN JOAQUIN DELTA FLOW INDICES

	FLOWRATE (C.F.S.)
Delta Outflow Index	6,520
Sacramento River @ Freeport	18,372
San Joaquin River @ Vernalis	1,366
Total Delta Inflow	21,379

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SIERRA SNOW SENSOR DATA

07/28/10

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	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%
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	N.A.	32.9	N.A.
Upper Burnt Corral	9,700	3.0	34.6	9%
W. Woodchuck Mdw.	9,100	3.5	32.8	11%
Big Meadows	7,600	0.0	25.9	0%
Kings River Average		1.6	30.5	5%
Kaweah River				
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%
Tule River				
Quaking Aspen	7,200	0.0	21.0	0%
Kern River				
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.

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CIMIS EVAPOTRANSPIRATION RATES

REPORTING STATION #	REPORTING STATION	YESTERDAY 7/27/2010 (Inches)	TOTAL PAST 7 DAYS (Inches)	NORMAL PAST 7 DAYS (Inches)	VARIANCE FROM NORMAL (%)	NORMAL NEXT 7 DAYS* (Inches)
5	Shafter/USDA	0.26	1.82	1.82	0	1.77
15	Stratford	0.27	2.04	1.92	6	1.87
39	Parlier	0.24	1.69	1.76	-4	1.70
80	Fresno State	0.26	1.96	1.90	3	1.86
86	Lindcove	0.25	1.84	1.79	3	1.75
125	Arvin-Edison	0.29	2.12	1.92	10	1.89
138	Famoso	0.26	1.90	1.93	-2	1.89
142	Orange Cove	0.28	2.01	1.92	5	1.87
145	Madera	0.25	1.89	2.13	-11	2.07
148	Merced	0.25	1.85	1.75	6	1.72
169	Porterville	0.25	1.86	1.85	1	1.81
182	Delano	0.25	1.81	1.93	-6	1.89

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CROP COEFFICIENTS

28-Jul-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)	0.96	0.97	0.95
Almonds (Mar. 1 leafout, Nov. 15 leafdrop)	0.97	0.97	0.96
Beans (Apr. 1 plant date, Aug. 1 harvest)	0.39	0.50	0.19
Beans (May 1 plant date, Aug. 15 harvest)	0.87	0.99	0.74
Beans (Jun. 1 plant date, Sep. 15 harvest)	1.09	1.08	1.10
Citrus (year round)	0.65	0.65	0.65
Corn (Apr. 15 plant date, Sep. 15 harvest)	1.10	1.10	1.10
Cotton (Apr. 1 plant date, Sep. 20 defoliate)	1.24	1.25	1.23
Cotton (Apr. 15 plant date, Oct. 1 defoliate)	1.27	1.28	1.26
Cotton (May 1 plant date, Oct. 1 defoliate)	1.28	1.29	1.27
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)	0.86	0.90	0.69
Melons (Jun. 1 plant date, Sep. 20 harvest)	0.58	0.49	0.68
Melons (Jul. 1 plant date, Oct. 10 harvest)	0.16	0.16	0.16
Olives (year round)	0.75	0.75	0.75
Pasture Grass	0.84	0.84	0.85
Pistachio (Apr. 1 leafout, Nov. 15 leafdrop)	1.19	1.19	1.19
Safflower (Mar. 1 plant date, Aug. 1 harvest)	0.28	0.52	0.07
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]	0.96	0.96	0.96
Tomato (Mar. 1 plant date, Jul. 20 harvest)	0.00	0.00	0.00
Tomato (Apr. 1 plant date, July 30 harvest)	0.73	0.85	0.10
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	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:								130%
May 1st:								159%