

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

		THIS YEAR 12/14/11	LAST WEEK	LAST YEAR 12/14/10
RESERVOIR STORAGE (A.F.)	CAPACITY	STORAGE		
Southern California Edison:				
Vermillion (Edison)	125,000	99,522	99,592	83,621
Florence	64,400	37,585	39,697	36,977
Huntington	89,000	64,240	64,752	74,146
Shaver	<u>135,300</u>	<u>183</u>	<u>183</u>	<u>16,113</u>
Sub-total (Big Creek)	413,700	201,530	204,224	210,857
Mammoth Pool	122,000	52,914	62,302	47,479
Redinger	<u>26,100</u>	<u>23,262</u>	<u>22,860</u>	<u>21,844</u>
Sub-total Southern California Edison	<u>561,800</u>	<u>277,706</u>	<u>289,386</u>	<u>280,180</u>
Pacific Gas & Electric:				
Crane Valley (Bass Lake)	45,400	17,156	17,387	19,525
Kerckhoff	<u>4,200</u>	<u>3,848</u>	<u>4,122</u>	<u>3,565</u>
Sub-total P G & E	<u>49,600</u>	<u>21,004</u>	<u>21,509</u>	<u>23,090</u>
TOTAL UPSTREAM STORAGE	611,400	298,710	310,895	303,270
MILLERTON LAKE	<u>520,500</u>	<u>317,813</u>	<u>307,180</u>	<u>322,444</u>
TOTAL STORAGE	1,131,900	616,523	618,075	625,714
INFLOW & RELEASE DATA (C.F.S.)				
Millerton Releases:				
Madera Canal		0	0	0
Friant-Kern Canal		301	624	0
San Joaquin River		99	102	77
Spillway		<u>0</u>	<u>0</u>	<u>0</u>
Total Millerton Releases		400	726	77
Actual Millerton Inflow		1,262	1,575	830
Computed Natural River (@Friant)		375	423	1,533
SAN JOAQUIN RIVER (A.F.)				
This Month:				
Actual to-date		9,190	3,237	37,169
Forecasted		20,000	20,000	65,000
April/July Period:				
Actual to-date		N.A.	N.A.	N.A.
Forecasted		N.A.	N.A.	N.A.
Last Year Actual				2,243,065
Water Year:				
Actual to-date		85,646	79,693	149,701
Forecasted		N.A.	N.A.	N.A.
Last Year Actual				3,347,486
ESTIMATED WATER YET TO BE DELIVERED (A.F.)				
Contract Year Ending February 28		294,622*	303,146*	130,194

*Revised Figure is based on 100% Class I, 5% Class II, 24.7% Uncontrolled Class II, plus estimated carry over of 63,390 AF, minus District usage.

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PRECIPITATION DATA

REPORTING STATIONS:	AVERAGE (INCHES)	THIS YEAR 12/14/11		LAST YEAR 12/14/10	
		ACCUMULATIVE TO DATE (INCHES/PERCENT AVG)			
HUNTINGTON					
This Month	6.81	0.00 /	0	1.85 /	27
Seasonal Average*	14.95	6.13 /	41	19.13 /	128
Annual Average	42.73	6.13 /	14	19.13 /	45
CRANE VALLEY					
This Month	6.40	0.00 /	0	1.43 /	22
Seasonal Average*	12.79	3.78 /	30	11.60 /	91
Annual Average	40.62	3.78 /	9	11.60 /	29
FRIANT					
This Month	2.27	0.00 /	0	0.76 /	33
Seasonal Average*	4.73	2.38 /	50	4.98 /	105
Annual Average	14.33	2.38 /	17	4.98 /	35

* 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	102,968	198	1
Fresno/Hidden	90,000	28,740	0	3
Kings/Pine Flat	1,000,000	550,368	653	599
Kaweah/Terminus	185,000	18,034	390	106
Tule/Success	82,314	12,027	10	58
Kern/Isabella	570,000	167,973	374	452

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SAN JOAQUIN RIVER AND ASSOCIATED WATER DATA

CVP/SWP SAN LUIS OPERATIONS

		THIS YEAR 12/14/11	LAST WEEK FLOWRATE (C.F.S.)	LAST YEAR 12/14/10 Average
PUMPING	MAX. FLOWRATE (C.F.S.)			
INSTANTANEOUS				
Tracy P.P.	4,600	4,025	4,022	4,092
Banks P.P.	10,000	6,340	6,697	6,369
MONTH TO DATE				
Tracy P.P.		99,484	43,707	114,220
Banks P.P.		163,355	74,499	170,706
SEASON TO DATE (Since October 1)				
Tracy P.P.		344,848	289,071	611,730
Banks P.P.		567,134	478,278	780,442
SAN LUIS RESERVOIR	CAPACITY (A.F.)		(A.F.)	
Federal	980,000	889,703	851,496	665,595
State	1,060,000	943,676	938,141	633,667
Total	2,040,000	1,833,379	1,789,637	1,299,262
SAN LUIS RESERVOIR		NET DAILY STORAGE CHANGE		
Federal		5,965	2,731	3,883
State		411	2,377	8,211

SACRAMENTO-SAN JOAQUIN DELTA FLOW INDICES

	FLOWRATE (C.F.S.)
Delta Outflow Index	5,076
Sacramento River @ Freeport	15,926
San Joaquin River @ Vernalis	1,517
Total Delta Inflow	17,856

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SIERRA SNOW SENSOR DATA		12/14/11		
REPORTING STATION	ELEVATION (FT.)	WATER CONTENT (IN.)	APRIL 1st AVERAGE (IN.)	PERCENT OF APRIL 1st AVERAGE
San Joaquin River				
Kaiser Pass	9,200	0.2	37.8	1%
Green Mountain	7,900	1.9	30.8	6%
Tamarack	7,600	0.7	30.5	2%
Chilkoot Meadow	7,150	2.3	38.0	6%
Huntington Lake	7,000	2.5	20.1	12%
Graveyard Meadow	6,900	0.4	18.8	2%
Poison Ridge	6,900	1.8	28.9	6%
Mammoth Pass	9,300	2.6	42.4	6%
San Joaquin River Average		1.6	30.9	5%
San Joaquin River Areal *				
Weighted Average		1.2	32.7	4%
Kings River				
Charlotte Lake	10,400	4.1	27.5	15%
State Lakes	10,400	3.2	29.0	11%
Mitchell Meadow	9,900	3.8	32.9	12%
Upper Burnt Corral	9,700	2.6	34.6	8%
W. Woodchuck Mdw.	9,100	1.6	32.8	5%
Big Meadows	7,600	1.8	25.9	7%
Kings River Average		4.3	30.5	9%
Kaweah River				
Farewell Gap	9,500	N.A.	34.5	N.A.
Giant Forest	6,650	0.2	10.0	2%
Kaweah River Average		0.1	22.3	2%
Tule River				
Quaking Aspen	7,200	2.7	21.0	13%
Kern River				
Upper Tyndall Crk	11,450	1.3	27.7	5%
Crabtree	10,700	N.A.	19.8	N.A.
Chagoopa Plateau	10,300	3.9	21.8	18%
Pascoes	9,150	4.0	24.9	16%
Tunnel	8,950	0.4	15.6	3%
Wet Meadow	8,950	4.3	30.3	14%
Beach Meadow	7,650	0.0	11.0	0%
Kern River Average		2.8	21.6	9%

* 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 12/13/2011 (Inches)	TOTAL PAST 7 DAYS (Inches)	NORMAL PAST 7 DAYS (Inches)	VARIANCE FROM NORMAL (%)	NORMAL NEXT 7 DAYS* (Inches)
5	Shafter/USDA	0.05	0.36	0.28	29	0.28
15	Stratford	0.05	0.36	0.23	57	0.21
39	Parlier	0.05	0.34	0.21	62	0.21
80	Fresno State	0.05	0.35	0.21	67	0.19
86	Lindcove	0.04	0.33	0.21	57	0.21
125	Arvin-Edison	0.05	0.37	0.28	32	0.26
138	Famoso	0.05	0.39	0.35	11	0.35
142	Orange Cove	0.05	0.38	0.20	90	0.14
145	Madera	0.05	0.35	0.33	6	0.28
148	Merced	0.05	0.33	0.24	38	0.21
169	Porterville	0.04	0.35	0.27	30	0.21
182	Delano	0.05	0.35	0.35	0	0.35

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CROP COEFFICIENTS

14-Dec-11

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)	0.00	0.00	0.00
Almonds (Mar. 1 leafout, Nov. 15 leafdrop)	0.00	0.00	0.00
Beans (Apr. 1 plant date, Aug. 1 harvest)	0.00	0.00	0.00
Beans (May 1 plant date, Aug. 15 harvest)	0.00	0.00	0.00
Beans (Jun. 1 plant date, Sep. 15 harvest)	0.00	0.00	0.00
Citrus (year round)	0.65	0.65	0.65
Corn (Apr. 15 plant date, Sep. 15 harvest)	0.00	0.00	0.00
Cotton (Apr. 1 plant date, Sep. 20 defoliate)	0.00	0.00	0.00
Cotton (Apr. 15 plant date, Oct. 1 defoliate)	0.00	0.00	0.00
Cotton (May 1 plant date, Oct. 1 defoliate)	0.00	0.00	0.00
Wheat, Oats, Barley (Dec. 1 plant date, Jun. 1 harvest)	0.40	0.40	0.40
Grapes, Raisin (Mar. 15 leafout, Oct. 15 leafdrop)	0.00	0.00	0.00
Grapes, Table (Mar. 15 leafout, Oct. 15 leafdrop)	0.00	0.00	0.00
Kiwi (Mar. 15 leafout, Nov. 1 leafdrop)	0.00	0.00	0.00
Melons (Apr. 1 plant date, Jul. 15 harvest)	0.00	0.00	0.00
Melons (May 1 plant date, Aug. 15 harvest)	0.00	0.00	0.00
Melons (Jun. 1 plant date, Sep. 20 harvest)	0.00	0.00	0.00
Melons (Jul. 1 plant date, Oct. 10 harvest)	0.00	0.00	0.00
Olives (year round)	0.75	0.75	0.75
Pasture Grass	0.57	0.58	0.56
Pistachio (Apr. 1 leafout, Nov. 15 leafdrop)	0.00	0.00	0.00
Safflower (Mar. 1 plant date, Aug. 1 harvest)	0.00	0.00	0.00
Low Chilling Stone Fruit (Feb. 15 leafout, Dec. 1 leafdrop)	0.00	0.00	0.00
Stone Fruit (Mar. 1 leafout, Nov. 15 leafdrop)			
[Peach, Nectarine, Plum, Apricot]	0.00	0.00	0.00
Late Stone Fruit (Mar. 16 leafout, Nov. 1 leafdrop)	0.00	0.00	0.00
Soft Fruit (Apr. 1 leafout, Nov. 15 leafdrop)			
[Apple, Pear]	0.00	0.00	0.00
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)	0.00	0.00	0.00
Walnut, Late (Apr. 1 leafout, Nov. 1 leafdrop)	0.00	0.00	0.00

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 (%)
196	Chilkoot Lake	7,450	2-Jun	68.8	36.6	53%	36.8	99%
197	Chilkoot Meadow	7,150	2-Jun	89.6	46.8	52%	36.6	128%
Basin Average Percent of April 1st:								114%
							June 1st	355%