

11238600 San Joaquin River above Stevenson Creek, near Big Creek, CA

San Joaquin River Basin

LOCATION.--Lat 37°12'28", long 119°19'44" referenced to North American Datum of 1927, Fresno County, CA, Hydrologic Unit 18040006, unsurveyed, in Sierra National Forest, in intake structure near left bank, 300 ft upstream from Dam No. 6, 3.5 mi upstream from Stevenson Creek, and 4.4 mi west of town of Big Creek.

DRAINAGE AREA.--1,197 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1986 to September 1987, October 1992 to September 1994, October 1995 to current year. Records for water years 1951 to 1972 in files of Southern California Edison Co. Records for water years 1974 to 1986 in files of the U.S. Geological Survey.

GAGE.--Acoustic-velocity meter and water-stage recorder on Dam 6 since Oct. 1, 1992. Water-stage recorders at various sites downstream prior to 1992. Elevation of gage is 2,200 ft above NGVD of 1929, from topographic map.

COOPERATION.--Records collected by the Southern California Edison Co., under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 120. Monthly diversion to Big Creek Powerplant No. 3 (station 11241800) provided by Southern California Edison Company.

REMARKS.--Record consists of computed flow over spillway at Dam 6 and flow through fish-water release valve. At times the sluice valve leaks and this flow bypasses the station. Flow regulated by Mammoth Pool Reservoir and Huntington Lake (stations 11234700 and 11236000) and diversions for power development in Big Creek powerplants. Most of the water is diverted past this station to Big Creek Powerplant No. 3. See schematic diagram of lower San Joaquin River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 72,500 ft³/s, Jan. 2, 1997; minimum daily, 3.0 ft³/s, at times in several years.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
2	e3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.6	3.6	3.6	3.6
3	e3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	e3.6	3.6
4	e3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.6	3.6	e3.6	5.8
5	e3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	e3.6	3.6	3.6
6	e3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	e3.6	3.6	3.6
7	e3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	e3.6	3.6	3.6
8	e3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	e3.6	3.6	3.6
9	e3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.5	e3.6	3.6	3.6
10	e3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.5	e3.6	3.6	3.6
11	e3.5	3.6	3.6	3.6	3.6	3.6	3.6	37	3.5	e3.6	3.6	3.6
12	e3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.5	e3.6	3.6	3.6
13	e3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.5	e3.6	3.6	3.6
14	e3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.5	e3.6	3.6	3.6
15	e3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.5	e3.6	3.6	3.6
16	e3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.5	e3.6	3.6	3.6
17	3.4	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.5	e3.6	3.6	3.6
18	3.2	3.6	3.6	3.6	3.6	3.6	e3.6	3.5	3.5	e3.6	3.6	3.6
19	3.2	3.6	6.1	3.6	3.6	3.6	3.6	3.5	3.6	e3.6	3.6	3.6
20	3.2	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.6	e3.6	3.6	3.6
21	3.3	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.6	e3.6	3.6	3.6
22	3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.6	e3.6	3.6	3.6
23	3.5	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.6	e3.6	3.6	3.6
24	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.6	e3.6	3.6	3.6
25	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.6	e3.6	e3.6	3.6
26	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.6	e3.6	3.6	3.6
27	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.6	e3.6	3.6	3.6
28	3.6	3.8	3.6	3.6	3.6	3.6	3.6	3.5	3.6	e3.6	3.6	3.6
29	3.6	3.6	3.6	3.6	---	3.6	3.6	3.5	3.6	e3.6	3.6	3.6
30	3.6	3.6	3.6	3.6	---	3.6	3.6	3.5	3.6	e3.6	3.6	3.6
31	3.6	---	3.6	3.6	---	3.6	---	3.5	---	3.6	3.6	---
Total	108.1	108.2	114.1	111.6	100.8	111.6	108.0	142.7	107.0	111.6	111.6	110.2
Mean	3.49	3.61	3.68	3.60	3.60	3.60	3.60	4.60	3.57	3.60	3.60	3.67
Max	3.6	3.8	6.1	3.6	3.6	3.6	3.6	37	3.6	3.6	3.6	5.8
Min	3.2	3.6	3.6	3.6	3.6	3.6	3.6	3.5	3.5	3.6	3.6	3.6
Ac-ft	214	215	226	221	200	221	214	283	212	221	221	219
Diversion, in acre-feet, to Big Creek Powerplant No. 3	82,900	42,910	40,930	33,890	27,380	57,800	91,330	141,300	101,200	86,630	64,010	59,150

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.55	3.79	18.2	448	236	179	265	1,747	2,233	616	26.6	4.50
Max	34.5	8.35	200	6,605	1,841	954	1,334	7,690	7,637	3,623	291	11.7
(WY)	(1999)	(2003)	(1997)	(1997)	(1997)	(1996)	(2006)	(2006)	(2006)	(1998)	(1998)	(2000)
Min	3.14	3.20	3.25	3.26	3.30	3.20	3.25	3.39	3.50	3.29	3.30	3.29
(WY)	(1993)	(1993)	(1993)	(1993)	(1993)	(1994)	(1994)	(1994)	(2004)	(1997)	(1997)	(1993)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1987 - 2007	
Annual total	575,453.9		1,345.5			
Annual mean	1,577		3.69		482	
Highest annual mean					1,578	2006
Lowest annual mean					3.38	1994
Highest daily mean	11,800	Jun 6	37	May 11	32,000	Jan 3, 1997
Lowest daily mean	3.2	Oct 18	3.2	Oct 18	3.0	Dec 4, 1993
Annual seven-day minimum	3.3	Oct 15	3.3	Oct 15	3.1	Oct 6, 1992
Maximum peak flow			219	May 11	72,500	Jan 2, 1997
Annual runoff (ac-ft)	1,141,000		2,670		349,300	
Total diversion (ac-ft)^a	1,381,000		829,400		1,155,000	
10 percent exceeds	7,150		3.6		1,080	
50 percent exceeds	3.6		3.6		3.5	
90 percent exceeds	3.5		3.5		3.3	

^a Diversion, in acre-feet, to Big Creek Powerplant No. 3 (station 11241800).

