Water-Data Report 2008

11243300 Browns Creek Canal at Bass Lake, CA

San Joaquin River Basin

LOCATION.--Lat 37°17′15″, long 119°31′07″ referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.25, T.7 S., R.22 E., Madera County, CA, Hydrologic Unit 18040006, in Sierra National Forest, on left bank, 900 ft upstream from Bass Lake, 1.4 mi downstream from Browns Creek, and 3.0 mi southeast of town of Bass Lake.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1986 to September 1998, October 2000 to current year.

GAGE.--Water-stage recorder and concrete canal. Elevation of gage is 3,440 ft above NGVD of 1929, from topographic map.

COOPERATION.--Records were provided by Pacific Gas and Electric Co., under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 1354.

REMARKS.--Canal diverts from South Fork Willow Creek at diversion dam 1.5 mi upstream from gage, in NW ¼ NE ¼ sec.30, T.7 S., R.23 E. Flow enters Bass Lake (station 11243400) for power development in San Joaquin River powerplants. See schematic diagram of lower San Joaquin River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 86 ft^3/s, Mar. 8, 1989; no flow at times in each year.

11243300 Browns Creek Canal at Bass Lake, CA—Continued

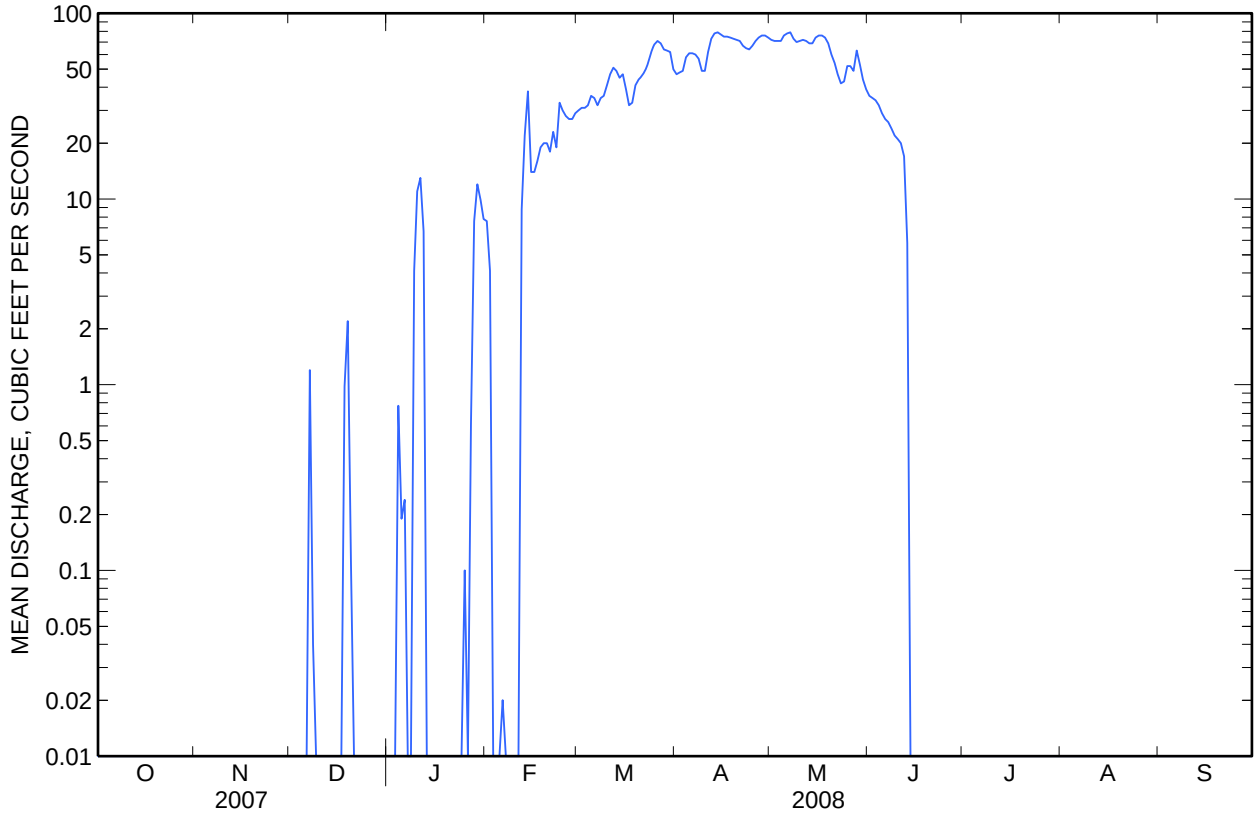
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.00	0.00	7.6	30	47	72	36	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	4.1	31	48	71	35	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	31	49	71	34	0.00	0.00	0.00
4	0.00	0.00	0.00	0.77	0.00	32	58	71	32	0.00	0.00	0.00
5	0.00	0.00	0.00	0.19	0.00	36	61	76	29	0.00	0.00	0.00
6	0.00	0.00	0.00	0.24	0.02	35	61	78	27	0.00	0.00	0.00
7	0.00	0.00	1.2	0.00	0.00	32	60	79	26	0.00	0.00	0.00
8	0.00	0.00	0.04	0.00	0.00	35	57	73	24	0.00	0.00	0.00
9	0.00	0.00	0.00	4.1	0.00	36	49	70	22	0.00	0.00	0.00
10	0.00	0.00	0.00	11	0.00	41	49	71	21	0.00	0.00	0.00
11	0.00	0.00	0.00	13	0.00	47	62	72	20	0.00	0.00	0.00
12	0.00	0.00	0.00	6.7	8.8	51	73	71	17	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	22	49	78	69	5.8	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	38	45	79	69	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	14	47	77	74	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	14	39	75	76	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	16	32	75	76	0.00	0.00	0.00	0.00
18	0.00	0.00	0.98	0.00	19	33	74	74	0.00	0.00	0.00	0.00
19	0.00	0.00	2.2	0.00	20	41	73	69	0.00	0.00	0.00	0.00
20	0.00	0.00	0.11	0.00	20	44	72	60	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	18	46	71	54	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	23	49	67	47	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	19	54	65	42	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	33	62	64	43	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.10	30	68	67	52	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	28	71	71	52	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.61	27	69	74	49	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	7.6	27	64	76	63	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	12	29	63	76	53	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	9.9	---	62	74	44	0.00	0.00	0.00	0.00
31	0.00	---	0.00	7.8	---	50	---	39	---	0.00	0.00	---
Total	0.00	0.00	4.53	74.01	417.52	1,425	1,982	1,980	328.80	0.00	0.00	0.00
Mean	0.00	0.00	0.15	2.39	14.4	46.0	66.1	63.9	11.0	0.00	0.00	0.00
Max	0.00	0.00	2.2	13	38	71	79	79	36	0.00	0.00	0.00
Min	0.00	0.00	0.00	0.00	0.00	30	47	39	0.00	0.00	0.00	0.00
Ac-ft	0.00	0.00	9.0	147	828	2,830	3,930	3,930	652	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1.19	3.97	9.79	19.0	31.5	47.5	53.1	40.2	18.1	6.25	1.50	0.57
Max	6.53	22.7	56.0	55.3	73.3	74.5	77.2	76.3	76.4	37.4	12.1	4.50
(WY)	(1990)	(1997)	(1997)	(2005)	(1997)	(1997)	(1993)	(1993)	(1995)	(1995)	(1995)	(1995)
Min	0.00	0.00	0.03	0.01	0.64	0.45	0.54	0.27	0.00	0.00	0.00	0.00
(WY)	(1989)	(1996)	(2007)	(2007)	(1998)	(1998)	(1998)	(1998)	(1998)	(1998)	(1987)	(1987)

11243300 Browns Creek Canal at Bass Lake, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1987 - 2008	
Annual total	2,608.78		6,211.86			
Annual mean	7.15		17.0		19.3	
Highest annual mean					39.0	1995
Lowest annual mean					1.58	1998
Highest daily mean	63	Mar 15	79	Apr 14	86	Mar 8, 1989
Lowest daily mean	0.00	Jan 1	0.00	Oct 1	0.00	Jul 3, 1987
Annual seven-day minimum	0.00	Jan 6	0.00	Oct 1	0.00	Jul 3, 1987
Annual runoff (ac-ft)	5,170		12,320		13,990	
10 percent exceeds	30		68		68	
50 percent exceeds	0.00		0.00		5.8	
90 percent exceeds	0.00		0.00		0.00