11355010 Pit River below Pit No. 1 Powerplant, near Fall River Mills, CA

Sacramento River Basin

LOCATION.--Lat 40°59′00″, long 121°30′39″ referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.15, T.36 N., R.4 E., Shasta County, CA, Hydrologic Unit 18020003, on left bank, 0.9 mi downstream from Pit No. 1 Powerplant, and 4 mi southwest of Fall River Mills.

DRAINAGE AREA.--3,761 mi^2, excluding Goose Lake basin.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1975 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 2,798.21 ft above NGVD of 1929 (levels by Pacific Gas and Electric Co.).

REMARKS.--Records good. Low flow regulated by many small reservoirs (total usable reservoir capacity, 210,000 acre-ft) and Pit No. 1 Powerplant. Many diversions upstream from station for irrigation. See schematic diagram of Pit and McCloud River Basins available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 30,000 ft^3/s, Feb. 20, 1986, gage height, 17.03 ft; minimum daily, 496 ft^3/s, Aug. 9, 2003.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of January 1974 reached a stage of 14.8 ft, from floodmarks on right bank, discharge, 22,600 ft^3/s.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 4,000 ft^3/s and (or) maximum (*):

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 1	0745	*5,660	*9.09
Jan 22	0445	4,650	8.49

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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	1,130	1,320	1,960	1,500	1,450	2,850	1,860	1,420	1,920	1,120	1,150	1,130
2	1,120	1,300	1,310	1,410	1,110	2,840	1,800	1,530	2,110	1,100	1,130	1,110
3	1,170	1,250	1,210	1,560	1,430	2,840	1,820	1,560	2,380	1,250	1,140	1,100
4	1,150	1,330	1,370	1,520	1,420	2,870	1,630	1,440	2,520	1,150	1,130	1,090
5	1,130	1,260	1,390	1,720	1,690	2,750	1,530	1,320	2,290	1,120	1,050	1,100
6	1,240	1,270	1,350	1,600	1,540	2,590	1,410	1,460	1,950	1,110	1,040	1,100
7	1,160	1,230	1,490	1,610	1,400	2,450	1,490	1,530	1,310	1,120	1,050	1,100
8	1,250	1,260	1,320	1,730	1,480	2,280	1,560	1,590	1,550	1,180	1,060	1,090
9	1,140	1,380	1,490	1,580	1,480	2,110	1,550	1,620	1,830	1,140	1,150	1,070
10	1,210	1,340	1,370	1,570	1,420	2,090	1,430	1,430	1,390	1,130	1,060	1,110
11	1,250	1,340	1,260	1,620	1,430	2,160	1,430	1,380	1,410	1,140	1,060	1,150
12	1,230	1,240	1,280	1,560	1,550	2,510	1,350	1,420	1,280	1,130	1,140	1,100
13	1,290	1,360	1,370	1,460	1,550	2,730	1,350	1,530	1,370	1,070	1,050	1,120
14	1,230	1,350	1,370	1,470	1,580	2,980	1,270	1,780	1,290	1,070	1,090	1,090
15	1,230	1,300	1,360	1,540	1,540	3,550	1,820	1,700	1,210	1,120	1,070	1,150
16	1,250	1,350	1,360	1,530	1,530	3,140	1,720	1,880	1,200	1,180	1,030	1,120
17	1,190	1,310	1,370	1,510	1,450	2,900	1,520	1,630	1,180	1,170	1,170	1,080
18	1,230	1,260	1,500	1,540	1,480	2,820	1,490	1,380	1,210	1,250	1,050	1,160
19	1,260	1,230	1,500	1,430	1,530	2,490	1,480	1,400	1,250	1,230	1,040	1,130
20	1,320	1,360	1,420	1,380	1,730	2,550	1,350	1,450	1,280	1,180	1,150	1,180
21	1,190	1,310	1,430	1,430	1,830	2,670	1,450	1,470	1,100	1,070	1,100	1,170
22	1,280	1,260	1,400	1,890	1,840	2,670	1,510	1,540	1,180	1,070	1,130	1,080
23	1,410	1,270	1,390	1,450	1,870	2,660	1,460	1,440	1,170	1,120	1,120	1,210
24	1,210	1,320	1,390	1,400	1,680	2,470	1,480	1,340	1,180	1,140	1,100	1,140
25	1,200	1,260	1,390	1,400	1,750	2,260	1,470	1,360	1,210	1,120	1,100	1,140
26	1,250	1,250	1,310	1,470	2,320	2,170	1,410	1,310	1,150	1,180	1,110	1,120
27	1,240	1,300	1,370	1,410	2,250	2,210	1,520	1,360	1,120	1,100	1,090	1,140
28	1,230	1,320	1,330	1,410	2,220	2,180	1,340	1,580	1,130	1,090	1,110	1,150
29	1,220	1,290	1,420	1,500	2,600	2,010	1,330	1,530	1,110	1,130	1,090	1,140
30	1,230	1,270	1,410	1,540	---	1,880	1,510	1,790	1,120	1,070	1,150	1,110
31	1,300	---	1,490	1,450	---	1,990	---	1,780	---	1,200	1,100	---
Total	37,940	38,890	43,380	47,190	48,150	78,670	45,340	46,950	43,400	35,250	34,010	33,680
Mean	1,224	1,296	1,399	1,522	1,660	2,538	1,511	1,515	1,447	1,137	1,097	1,123
Max	1,410	1,380	1,960	1,890	2,600	3,550	1,860	1,880	2,520	1,250	1,170	1,210
Min	1,120	1,230	1,210	1,380	1,110	1,880	1,270	1,310	1,100	1,070	1,030	1,070
Ac-ft	75,250	77,140	86,040	93,600	95,510	156,000	89,930	93,130	86,080	69,920	67,460	66,800

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1975 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1,381	1,586	1,805	2,278	2,715	3,062	2,496	2,312	1,624	1,291	1,244	1,297
Max	1,776	3,181	3,834	6,060	8,539	6,539	5,614	6,883	4,582	1,809	1,618	1,628
(WY)	(1999)	(1982)	(1984)	(1997)	(1986)	(1993)	(1982)	(1995)	(1998)	(1998)	(1998)	(1998)
Min	939	1,133	1,214	1,222	1,268	1,294	1,173	1,050	1,012	954	828	784
(WY)	(1995)	(1993)	(1993)	(1991)	(1994)	(1992)	(1992)	(1992)	(1992)	(1994)	(1994)	(1994)

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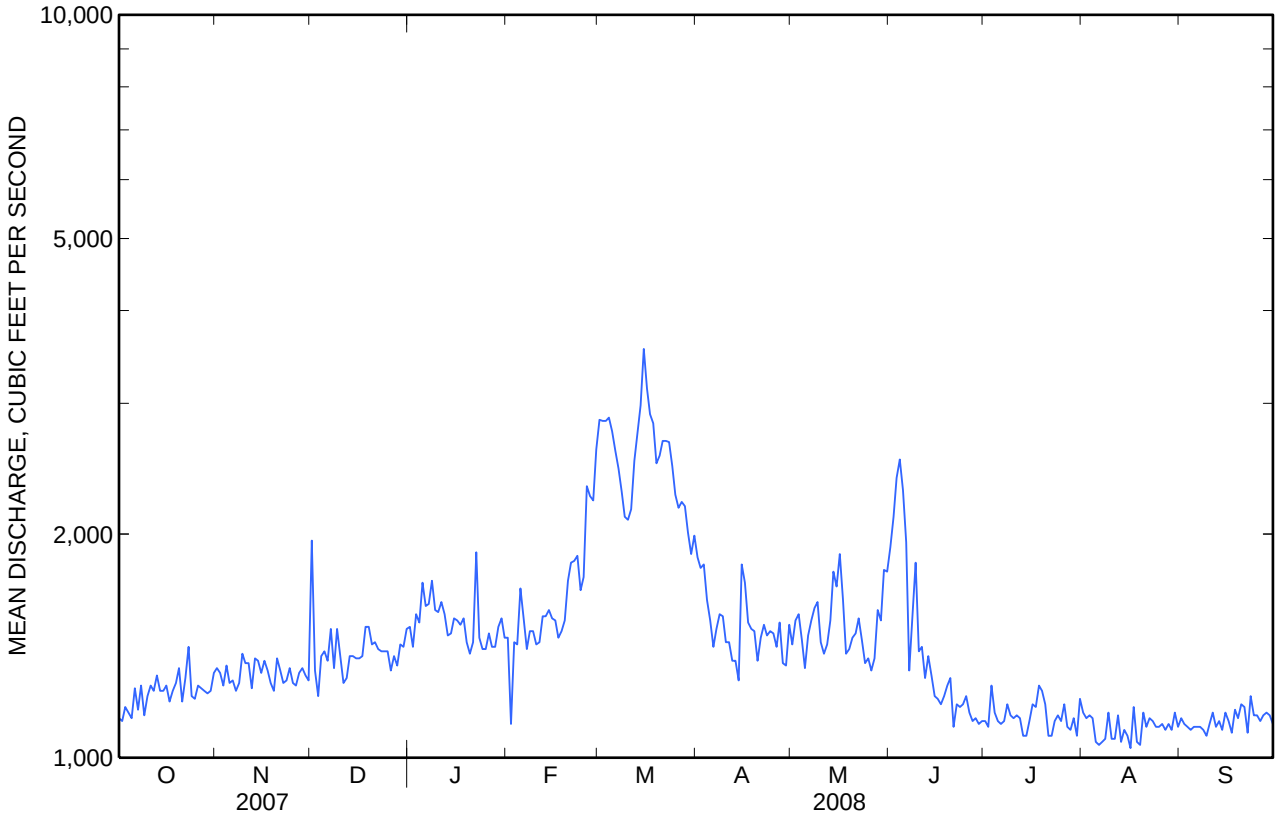
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1975 - 2008	
Annual total	486,567		532,850			
Annual mean	1,333		1,456		1,919	
Highest annual mean					2,914	1998
Lowest annual mean					1,149	1992
Highest daily mean	2,480	Mar 9	3,550	Mar 15	28,800	Feb 20, 1986
Lowest daily mean	885	Jun 22	1,030	Aug 16	496	Aug 9, 2003
Annual seven-day minimum	1,000	Aug 11	1,070	Aug 5	538	Aug 5, 2003
Maximum peak flow			5,660	Dec 1	30,000	Feb 20, 1986
Maximum peak stage			9.09	Dec 1	17.03	Feb 20, 1986
Annual runoff (ac-ft)	965,100		1,057,000		1,390,000	
10 percent exceeds	1,700		2,030		3,190	
50 percent exceeds	1,280		1,350		1,490	
90 percent exceeds	1,060		1,100		1,150