11192950 KERN RIVER BELOW KERN CANYON POWERHOUSE DIVERSION DAM, NEAR BAKERSFIELD, CA

Buena Vista Lake Basin

LOCATION.--Lat 35°27′37″, long 118°46′43″ referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.29, T.28 S., R.30 E., Kern County, Hydrologic Unit 18030003, in Sequoia National Forest, on right bank, 100 ft downstream of diversion dam, and 16.4 mi northeast of Bakersfield.

DRAINAGE AREA.--Not determined.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1987 to June 1995, October 1995 to September 1996 (low-flow records only to 35 ft^3/s), October 1996 to current year. Prior to October 1996 published as "Kern River Fishwater Release at Kern County Powerhouse Dam, near Bakersfield". Prior to Oct. 1, 1993, at site 100 ft upstream and did not include leakage through diversion dam radial gates. Bypass flow would enter the main channel immediately downstream from the gage.

GAGE.--Water-stage recorder. Elevation of gage is 975 ft above NGVD of 1929, from topographic map.

REMARKS.--Flow regulated at diversion dam 100 ft upstream from gage. Water is diverted upstream of gage to Kern Canyon Powerplant (station 11192940) and returned to the river approximately 5 mi downstream. See schematic diagram of Kern River Basin.

COOPERATION.--Records, including diversion to Kern Canyon Powerplant, 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. 178.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 4,770 ft^3/s, July 3, 1998, gage height, 7.61 ft; minimum daily, 6 ft^3/s, Dec. 18, 1988.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	36	76	37	50	717	608	43	250	2,290	3,380	2,100	843
2	36	57	37	50	637	586	43	343	2,550	3,380	2,090	798
3	36	37	37	50	580	586	43	462	2,680	3,280	2,390	649
4	36	37	37	49	550	581	43	523	2,730	3,400	2,370	649
5	36	37	63	49	551	586	53	543	2,730	3,540	2,340	737
6	35	37	37	49	551	580	65	509	2,730	3,660	2,240	731
7	36	37	37	49	549	558	56	257	3,000	3,680	2,210	703
8	36	37	37	49	551	565	66	113	3,060	3,530	2,190	688
9	36	37	37	49	535	402	49	183	3,130	3,500	2,110	695
10	36	37	37	49	523	269	43	141	3,350	3,310	1,990	655
11	100	37	37	49	578	143	50	204	3,370	3,550	2,080	606
12	117	37	37	49	579	45	43	294	3,370	3,810	2,250	584
13	122	37	46	49	579	45	49	362	3,510	3,620	2,130	607
14	168	37	35	49	579	46	46	366	3,530	3,650	2,110	636
15	151	37	35	49	580	44	46	317	3,550	3,420	2,120	722
16	144	37	35	49	592	44	46	481	3,550	3,180	2,070	703
17	148	37	35	49	592	44	46	509	3,320	3,120	2,090	551
18	156	37	34	49	626	43	132	558	3,440	3,250	1,720	516
19	184	37	35	49	635	43	295	600	3,820	3,240	1,150	619
20	207	37	34	49	633	43	53	701	4,100	3,240	1,180	701
21	212	37	34	49	628	43	62	704	3,810	3,260	1,170	782
22	251	37	56	49	630	43	51	726	3,750	3,200	1,340	750
23	252	37	46	142	635	65	48	1,300	3,660	3,100	1,400	741
24	259	37	46	161	640	46	50	1,770	3,540	3,020	1,370	624
25	273	37	46	46	634	43	61	1,790	3,390	2,860	1,210	632
26	257	37	46	46	630	43	80	1,760	3,310	2,700	1,190	720
27	165	37	46	46	630	43	161	1,700	3,110	2,430	985	675
28	76	37	84	216	591	43	228	1,460	3,180	2,290	914	623
29	75	37	72	529	---	43	68	1,520	3,310	2,110	1,080	588
30	77	37	50	602	---	43	86	1,700	3,290	2,120	891	619
31	76	---	50	600	---	43	---	1,610	---	2,100	957	---
Total	3,829	1,169	1,335	3,469	16,735	6,359	2,205	23,756	98,160	97,930	53,437	20,147
Mean	124	39.0	43.1	112	598	205	73.5	766	3,272	3,159	1,724	672
Max	273	76	84	602	717	608	295	1,790	4,100	3,810	2,390	843
Min	35	37	34	46	523	43	43	113	2,290	2,100	891	516
Ac-ft	7,590	2,320	2,650	6,880	33,190	12,610	4,370	47,120	194,700	194,200	106,000	39,960
Diversion, in acre-feet, to Kern Canyon Powerplant												
	4,290	6,130	7,850	21,530	0	20,620	30,840	33,880	6,350	4,640	26,220	33,580

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	112	98.3	105	149	257	222	187	361	765	743	443	173
Max	1,134	1,093	1,212	630	1,234	1,634	1,543	3,378	4,191	3,375	2,667	1,442
(WY)	(1999)	(1999)	(1997)	(1998)	(1998)	(1997)	(1998)	(1998)	(1998)	(1998)	(1998)	(1998)
Min	11.5	12.3	14.6	15.6	12.3	12.4	11.2	9.87	10.5	11.2	12.8	12.0
(WY)	(1989)	(1988)	(1989)	(1991)	(1988)	(1988)	(1988)	(1988)	(1988)	(1988)	(1988)	(1988)

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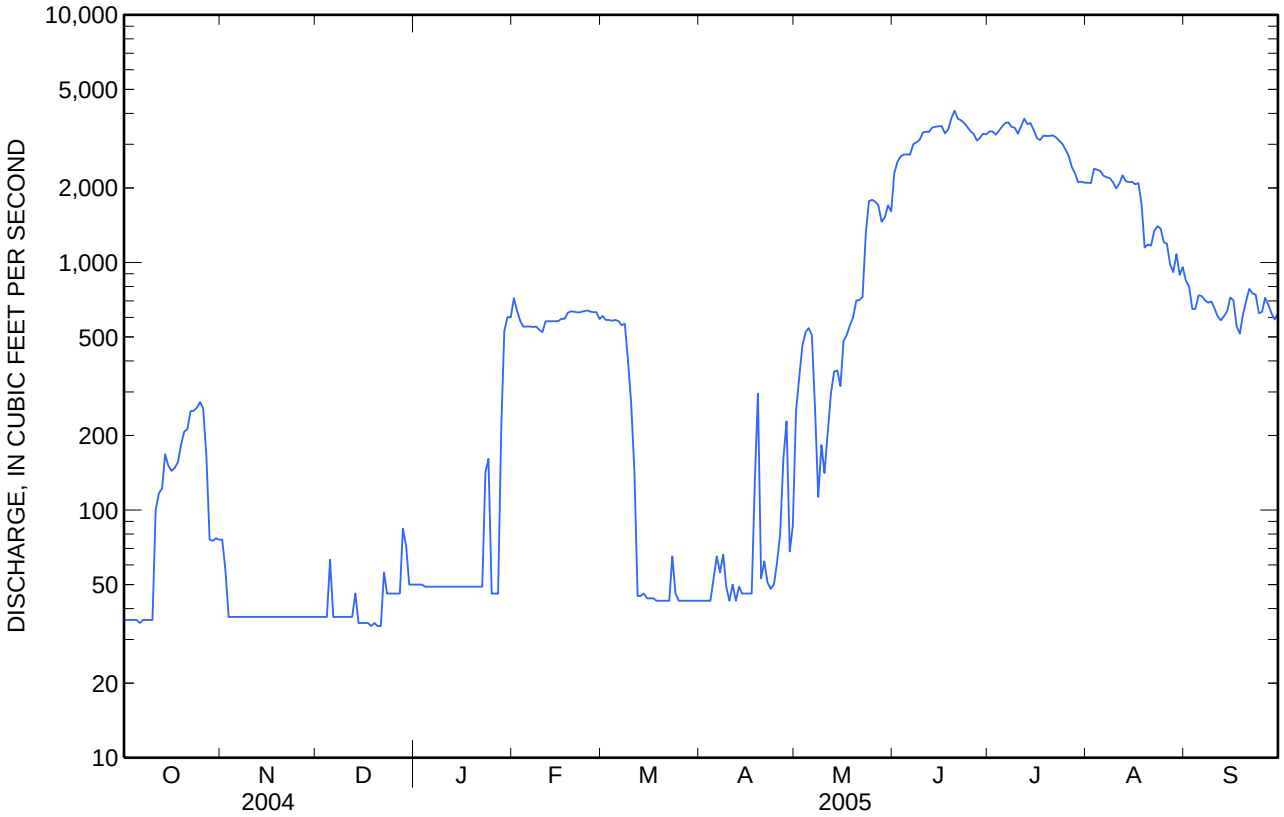
SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1988 - 2005	
Annual total	58,943		328,531			
Annual mean	161		900		467	
Highest annual mean					1,631	1998
Lowest annual mean					24.8	1994
Highest daily mean	1,230	Jun 8	4,100	Jun 20	4,520	Jul 5, 1998
Lowest daily mean	28	Mar 27	34	Dec 18	6.0	Dec 18, 1988
Annual seven-day minimum	30	Jan 1	35	Dec 15	9.5	May 20, 1988
Maximum peak flow			4,170	Jun 20	4,770	Jul 3, 1998
Maximum peak stage			7.12	Jun 20	7.61	Jul 3, 1998
Annual runoff (ac-ft)	116,900		651,600		338,500	
10 percent exceeds	434		3,240		1,390	
50 percent exceeds	52		366		46	
90 percent exceeds	32		37		26