11295250 COLLIERVILLE POWERPLANT NEAR MURPHYS, CA

San Joaquin River Basin

LOCATION.--Lat 38°08′33″, long 120°22′39″ referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.1, T.3 N., R.14 E., Calaveras County, Hydrologic Unit 18040010, 800 ft upstream from Stanislaus River, and 4.4 mi east of Murphys.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--February 1990 to current year.

GAGE.--Pressure-differential sensors in powerplant penstocks. Elevation of powerplant is 1,120 ft above NGVD of 1929, from topographic map.

REMARKS.--Flow is diverted from McKays Point Reservoir (station 11295260) through Collierville Tunnel to powerplant. A portion of the flow in the tunnel is diverted to Utica Canal (station 11295240) through a pressure tap near Mill Creek in SW ¼ SW ¼ sec.17, T.4 N., R.15 E. See schematic diagram of Stanislaus River Basin.

COOPERATION.--Records were collected by Northern California Power Agency, under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 2409.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 1,610 ft^3/s, May 8, 2000; no flow for many days most years.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	79	240	90	231	282	909	1,050	1,300	1,350	648	277	472
2	50	188	111	243	233	797	970	1,260	1,250	492	373	368
3	154	177	111	152	290	788	857	1,210	1,290	317	401	201
4	257	128	56	168	300	626	1,020	1,130	1,280	380	399	160
5	248	135	116	187	235	735	921	1,290	1,210	389	541	412
6	257	50	158	218	130	663	1,280	1,290	1,270	447	352	298
7	106	45	595	272	288	834	1,170	1,050	1,300	467	347	345
8	225	170	790	326	330	850	1,190	1,250	1,360	414	554	218
9	62	175	835	385	256	864	1,150	1,370	1,370	349	409	389
10	22	190	755	492	244	849	1,100	1,350	1,410	277	363	253
11	228	160	298	884	235	881	1,090	1,250	1,420	508	428	201
12	91	121	122	501	189	723	1,200	1,010	1,380	421	476	243
13	77	95	104	506	358	944	1,070	1,170	1,410	434	134	115
14	107	57	152	510	224	882	1,110	1,250	1,400	457	191	245
15	124	190	193	416	529	435	1,030	1,340	1,280	435	219	300
16	120	167	118	363	444	463	847	1,190	1,300	454	352	321
17	61	163	99	455	694	412	1,240	1,350	1,330	380	333	209
18	93	185	176	511	579	663	1,260	1,280	1,340	427	210	153
19	161	140	130	475	481	444	1,220	1,180	1,190	466	228	410
20	138	105	113	381	490	609	979	1,350	1,090	352	169	288
21	159	85	81	438	555	620	1,020	1,230	958	232	167	455
22	215	158	82	439	576	692	903	1,140	1,030	269	297	427
23	175	116	93	233	527	967	702	1,170	778	335	372	317
24	152	112	44	261	550	607	891	1,310	858	228	345	211
25	216	47	93	345	565	558	826	1,240	702	340	243	270
26	215	51	81	699	428	682	752	1,240	854	294	394	568
27	203	60	78	646	666	707	1,020	e1,340	838	273	340	244
28	189	148	104	389	545	859	897	1,180	714	255	335	431
29	198	267	86	236	---	778	1,160	1,210	693	330	256	426
30	88	260	152	364	---	780	1,150	1,300	916	328	652	480
31	87	---	190	205	---	970	---	1,300	---	343	655	---
Total	4,557	4,185	6,206	11,931	11,223	22,591	31,075	38,530	34,571	11,741	10,812	9,430
Mean	147	140	200	385	401	729	1,036	1,243	1,152	379	349	314
Max	257	267	835	884	694	970	1,280	1,370	1,420	648	655	568
Min	22	45	44	152	130	412	702	1,010	693	228	134	115
Ac-ft	9,040	8,300	12,310	23,670	22,260	44,810	61,640	76,420	68,570	23,290	21,450	18,700

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1990 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	184	144	198	280	402	593	705	708	450	279	242	224
Max	333	315	774	820	1,170	1,101	1,240	1,339	1,340	897	544	364
(WY)	(1997)	(1997)	(1997)	(1997)	(1997)	(1995)	(1995)	(1995)	(1998)	(1995)	(1998)	(1997)
Min	49.5	40.2	25.3	32.3	9.79	140	309	50.6	55.5	94.7	104	112
(WY)	(1993)	(1992)	(1992)	(1992)	(1991)	(1991)	(1994)	(1992)	(1992)	(1994)	(1992)	(2004)

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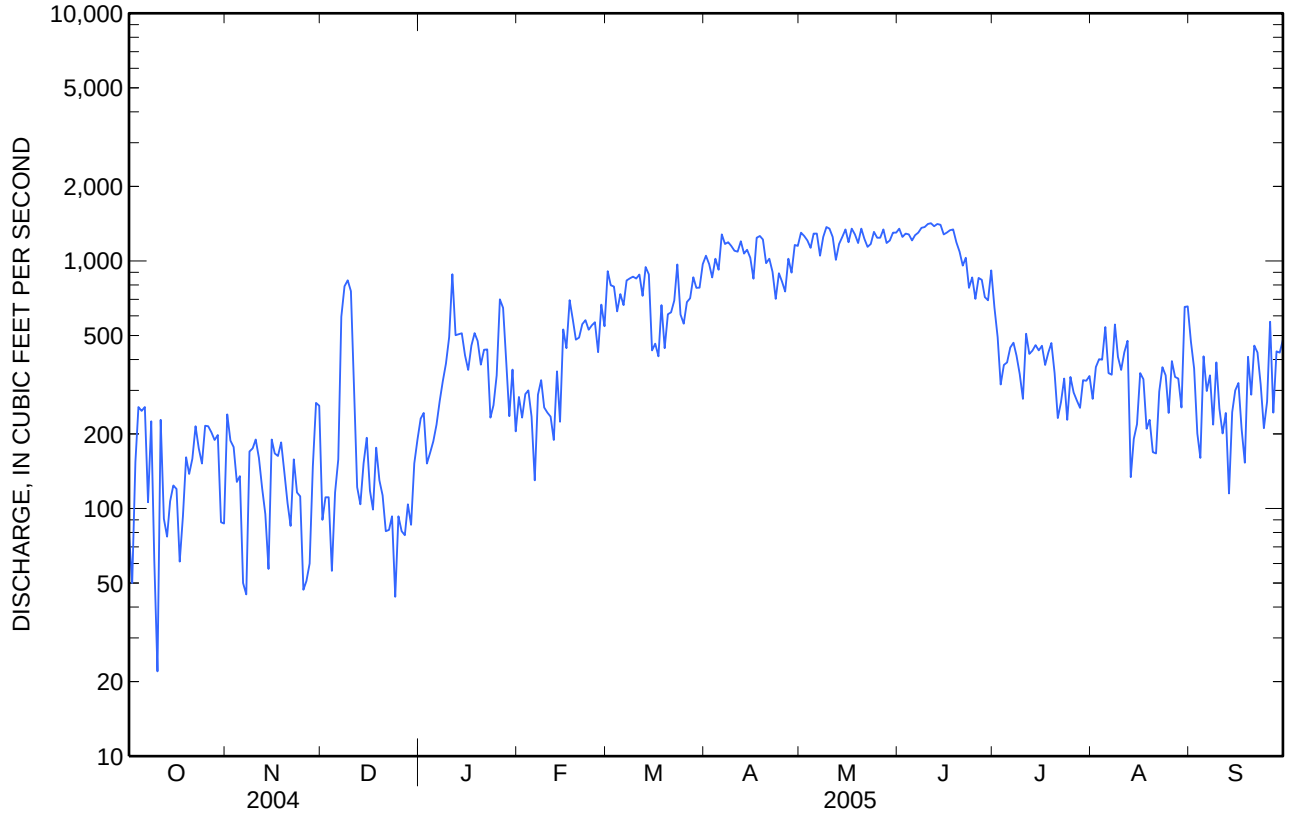
SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1990 - 2005	
Annual total	86,978		196,852			
Annual mean	238		539		378	
Highest annual mean					696	1995
Lowest annual mean					115	1992
Highest daily mean	1,100	Mar 23	1,420	Jun 11	1,610	May 8, 2000
Lowest daily mean	22	Oct 10	22	Oct 10	0.00	Feb 10, 1990
Annual seven-day minimum	79	Dec 21	79	Dec 21	0.00	Feb 7, 1991
Annual runoff (ac-ft)	172,500		390,500		273,500	
10 percent exceeds	632		1,240		987	
50 percent exceeds	148		401		232	
90 percent exceeds	75		112		22