11276900 TUOLUMNE RIVER BELOW EARLY INTAKE, NEAR MATHER, CA

San Joaquin River Basin

LOCATION.--Lat 37°52′54″, long 119°58′09″ referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.2, T.1 S., R.18 E., Tuolumne County, Hydrologic Unit 18040009, Stanislaus National Forest, on left bank, 0.6 mi upstream from Cherry Creek, 0.7 mi downstream from Robert C. Kirkwood Powerplant and Hetch Hetchy Aqueduct, and 6.3 mi west of Mather.

DRAINAGE AREA.--487 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1966 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Elevation of gage is 2,200 ft above NGVD of 1929, from topographic map.

REMARKS.--Records good. Flow regulated by Hetch Hetchy Reservoir (station 11275500) 13 mi upstream and Robert C. Kirkwood Powerplant beginning Apr. 26, 1967. Water is diverted to Hetch Hetchy Aqueduct from the tailrace of the powerplant through a closed conduit. Flow in excess of aqueduct capacity is diverted to river. See schematic diagram of Tuolumne River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 18,200 ft^3/s, Jan. 3, 1997, gage height, 12.33 ft; minimum daily, 12 ft^3/s, Nov. 28-30, 1976.

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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	64	61	59	169	124	1,060	1,100	989	3,480	4,510	125	114
2	53	60	51	128	130	1,080	1,080	1,000	3,220	4,810	123	103
3	49	59	50	108	123	1,080	1,070	1,020	3,850	4,030	122	97
4	49	59	50	106	119	1,030	1,080	1,040	3,840	2,920	121	94
5	49	58	50	99	115	1,030	1,090	1,080	3,890	2,280	120	94
6	49	58	49	93	113	1,030	1,060	1,110	3,410	2,760	118	95
7	50	57	56	149	213	1,060	1,050	1,090	2,520	3,500	118	97
8	49	58	84	603	457	1,090	1,070	1,080	2,070	3,060	113	96
9	50	59	88	674	457	1,060	1,090	1,250	1,640	2,390	119	97
10	49	58	70	818	457	1,050	1,080	1,160	1,390	2,050	126	101
11	48	61	64	494	455	1,040	1,060	1,120	1,630	1,900	125	95
12	49	63	61	259	462	1,040	1,040	1,090	2,320	2,030	124	97
13	48	61	59	195	457	1,030	1,030	1,090	2,730	2,000	122	106
14	49	59	57	162	460	1,040	1,020	1,100	3,100	1,780	122	107
15	49	59	56	151	484	1,020	1,010	1,090	4,070	1,450	124	106
16	48	58	55	146	753	1,010	1,000	1,290	4,710	1,310	123	84
17	56	58	54	145	630	1,010	1,000	2,810	4,710	1,320	123	83
18	117	58	54	142	575	1,010	1,000	4,180	4,400	1,240	125	83
19	80	58	52	143	560	1,050	962	5,400	3,130	1,200	123	83
20	156	57	52	140	648	1,180	963	7,280	2,040	1,150	122	85
21	90	56	51	133	632	1,170	967	7,270	1,800	1,110	122	87
22	63	56	50	126	668	1,330	963	7,280	2,160	1,130	126	83
23	58	57	50	120	875	1,330	966	7,270	2,750	1,110	122	82
24	59	57	50	116	1,030	1,230	964	7,330	3,550	1,110	123	82
25	57	57	50	122	1,010	1,170	965	7,430	4,260	859	121	82
26	84	56	49	210	1,050	1,150	961	7,460	3,460	160	126	82
27	96	64	51	240	1,020	1,140	972	7,580	2,310	116	125	82
28	83	72	59	191	1,080	1,250	1,010	7,640	3,710	128	117	83
29	70	62	69	181	---	1,170	1,000	7,670	3,750	138	119	81
30	66	60	101	149	---	1,140	991	7,140	3,190	129	123	81
31	63	---	318	133	---	1,120	---	5,360	---	127	123	---
Total	2,000	1,776	2,069	6,645	15,157	34,200	30,614	116,699	93,090	53,807	3,785	2,742
Mean	64.5	59.2	66.7	214	541	1,103	1,020	3,764	3,103	1,736	122	91.4
Max	156	72	318	818	1,080	1,330	1,100	7,670	4,710	4,810	126	114
Min	48	56	49	93	113	1,010	961	989	1,390	116	113	81
Ac-ft	3,970	3,520	4,100	13,180	30,060	67,840	60,720	231,500	184,600	106,700	7,510	5,440

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1968 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	80.3	100	151	273	303	404	530	1,399	2,025	952	224	117
Max	247	313	1,169	2,917	1,039	1,103	1,694	3,764	6,260	5,530	1,726	370
(WY)	(1984)	(1984)	(1997)	(1997)	(1996)	(2005)	(1983)	(2005)	(1983)	(1983)	(1983)	(1983)
Min	30.0	34.8	29.4	31.1	34.8	37.5	33.7	52.0	36.9	29.9	31.1	28.7
(WY)	(1989)	(1988)	(1977)	(1977)	(1977)	(1977)	(1977)	(1992)	(1976)	(1976)	(1976)	(1976)

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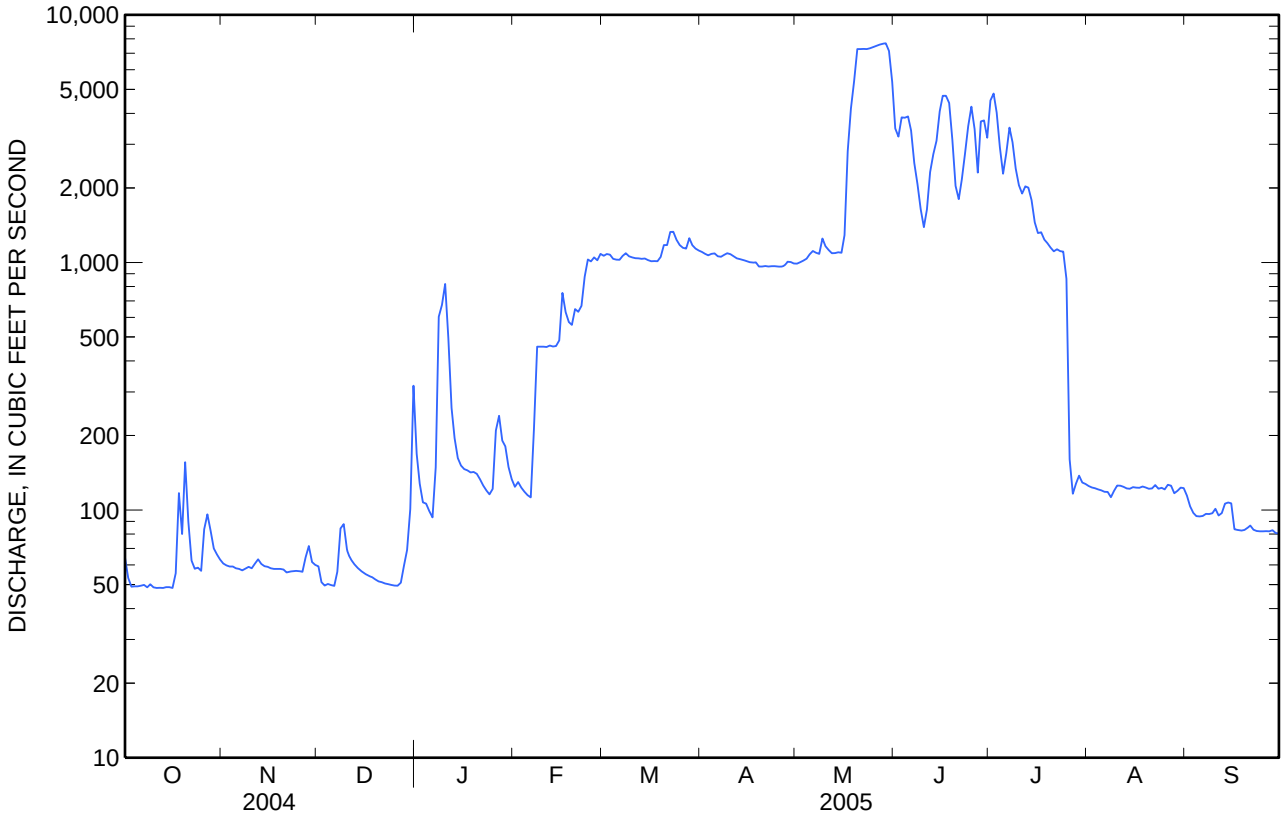
SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1968 - 2005	
Annual total	151,076		362,584			
Annual mean	413		993		547	
Highest annual mean					1,778	1983
Lowest annual mean					49.2	1977
Highest daily mean	3,890	May 29	7,670	May 29	14,400	Jan 3, 1997
Lowest daily mean	48	Oct 11	48	Oct 11	12	Nov 28, 1976
Annual seven-day minimum	49	Oct 10	49	Oct 10	13	Nov 24, 1976
Maximum peak flow			7,670	May 28	18,200	Jan 3, 1997
Maximum peak stage			9.58	May 28	12.33	Jan 3, 1997
Annual runoff (ac-ft)	299,700		719,200		396,100	
10 percent exceeds	1,060		3,080		1,300	
50 percent exceeds	113		160		133	
90 percent exceeds	56		56		49