11406920 THERMALITO AFTERBAY RELEASE TO FEATHER RIVER, NEAR OROVILLE, CA

Sacramento River Basin

LOCATION.--Lat 39°27′23″, long 121°38′10″ referenced to North American Datum of 1927, in NW ¼ SE ¼ sec.33, T.19 N., R.3 E., Butte County, Hydrologic Unit 18020106, on left bank of outlet channel, 955 ft downstream from centerline of Thermalito Afterbay Dam, and 5.7 mi southwest of Oroville.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--November 1967 to current year.
WATER TEMPERATURE: Water years 1969-92.

GAGE.--Water-stage recorder. Datum of gage is 113.47 ft above NGVD of 1929 (levels by California Department of Water Resources). Prior to May 1, 1970, at datum 13.00 ft lower.

REMARKS.--Flow regulated by gates of Thermalito Afterbay outlet 955 ft upstream. See schematic diagram showing diversions and storage from Feather River at Lake Oroville.

COOPERATION.--Records collected by California Department of Water Resources, under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 2100.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 21,600 ft^3/s, Jan. 28, 1970, gage height, 23.30 ft, datum then in use, 21,600 ft^3/s, Jan. 2, 1997, gage height, 11.45 ft; no flow for many days during water year 1968.

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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	1,890	1,440	1,440	1,130	1,130	1,140	940	512	2,670	1,390	2,900	3,400
2	1,890	1,430	1,440	1,130	1,130	1,140	730	631	2,880	1,390	2,900	3,400
3	1,890	1,440	1,340	1,140	1,130	1,140	528	631	2,380	1,390	2,890	3,400
4	1,890	1,440	1,240	1,140	1,130	1,130	429	638	1,880	1,390	2,890	3,400
5	1,890	1,440	1,140	1,130	1,130	1,130	421	626	1,680	1,400	2,830	3,400
6	1,890	1,430	1,140	1,130	1,130	1,130	434	625	1,490	1,590	2,830	3,400
7	1,890	1,430	1,140	1,140	1,140	1,130	439	631	1,390	1,590	2,830	3,400
8	1,890	1,440	1,140	1,130	1,130	1,140	439	628	1,390	1,760	2,840	3,400
9	1,890	1,440	1,140	1,130	1,140	1,130	435	484	3,010	1,890	2,910	3,400
10	1,890	1,440	1,130	1,130	1,130	1,140	431	485	4,410	1,890	2,840	3,400
11	1,890	1,440	1,130	1,140	1,130	1,130	430	484	4,390	1,890	2,910	3,400
12	1,890	1,430	1,140	1,140	1,130	1,130	431	482	3,610	2,070	2,910	3,400
13	1,890	1,440	1,140	1,140	1,130	1,130	431	483	2,610	2,670	2,910	3,400
14	1,890	1,430	1,140	1,140	1,130	1,130	428	482	1,890	3,430	2,910	3,410
15	1,840	1,440	1,140	1,130	1,130	1,140	431	482	2,170	3,810	3,400	3,400
16	1,840	1,440	1,140	1,130	1,130	1,140	430	482	4,570	3,900	3,410	3,400
17	1,840	1,440	1,140	1,140	1,130	1,140	430	510	5,420	3,900	3,400	3,400
18	1,840	1,440	1,130	1,130	1,140	1,140	430	1,400	5,420	3,910	3,410	3,410
19	1,850	1,440	1,140	1,130	1,140	1,140	433	1,400	5,390	3,900	3,410	3,510
20	1,790	1,440	1,140	1,140	1,140	1,130	438	2,180	4,370	3,910	3,400	3,700
21	1,580	1,440	1,140	1,140	1,130	1,130	438	3,150	3,370	3,890	3,400	3,910
22	1,440	1,450	1,140	1,130	1,130	1,140	436	3,420	2,370	3,410	3,400	3,900
23	1,440	1,440	1,140	1,130	1,130	1,130	439	3,390	1,890	3,410	3,410	3,910
24	1,440	1,440	1,140	1,140	1,140	1,140	438	3,380	1,890	3,410	3,400	3,910
25	1,440	1,450	1,140	1,130	1,130	1,140	432	2,880	1,890	3,280	3,400	3,910
26	1,440	1,450	1,140	1,130	1,130	1,130	431	2,380	1,880	2,940	3,400	3,910
27	1,430	1,450	1,140	1,140	1,130	1,130	434	1,890	1,700	2,910	3,400	3,910
28	1,440	1,450	1,140	1,140	1,130	1,140	511	1,890	1,690	2,910	3,400	3,910
29	1,440	1,440	1,140	1,140	---	1,140	511	1,890	1,490	2,820	3,410	4,190
30	1,440	1,450	1,140	1,140	---	1,130	510	1,890	1,490	2,820	3,410	4,910
31	1,440	---	1,130	1,140	---	1,130	---	1,910	---	2,820	3,400	---
Total	53,430	43,210	36,200	35,190	31,700	35,180	14,118	42,346	82,680	83,690	98,160	108,800
Mean	1,724	1,440	1,168	1,135	1,132	1,135	471	1,366	2,756	2,700	3,166	3,627
Max	1,890	1,450	1,440	1,140	1,140	1,140	940	3,420	5,420	3,910	3,410	4,910
Min	1,430	1,430	1,130	1,130	1,130	1,130	421	482	1,390	1,390	2,830	3,400
Ac-ft	106,000	85,710	71,800	69,800	62,880	69,780	28,000	83,990	164,000	166,000	194,700	215,800

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	1,914	2,210	3,808	4,157	5,108	5,339	4,215	3,289	3,146	4,076	3,583	2,880
Max	5,867	11,020	15,120	14,700	14,600	16,890	15,410	12,340	9,717	8,678	7,043	7,085
(WY)	(1975)	(1974)	(1984)	(1997)	(1983)	(1983)	(1983)	(1983)	(1983)	(2003)	(1974)	(1974)
Min	145	336	56.7	391	345	239	207	549	337	0.13	116	398
(WY)	(1978)	(1978)	(1968)	(1993)	(1968)	(1992)	(1992)	(1977)	(1990)	(1968)	(1968)	(1968)

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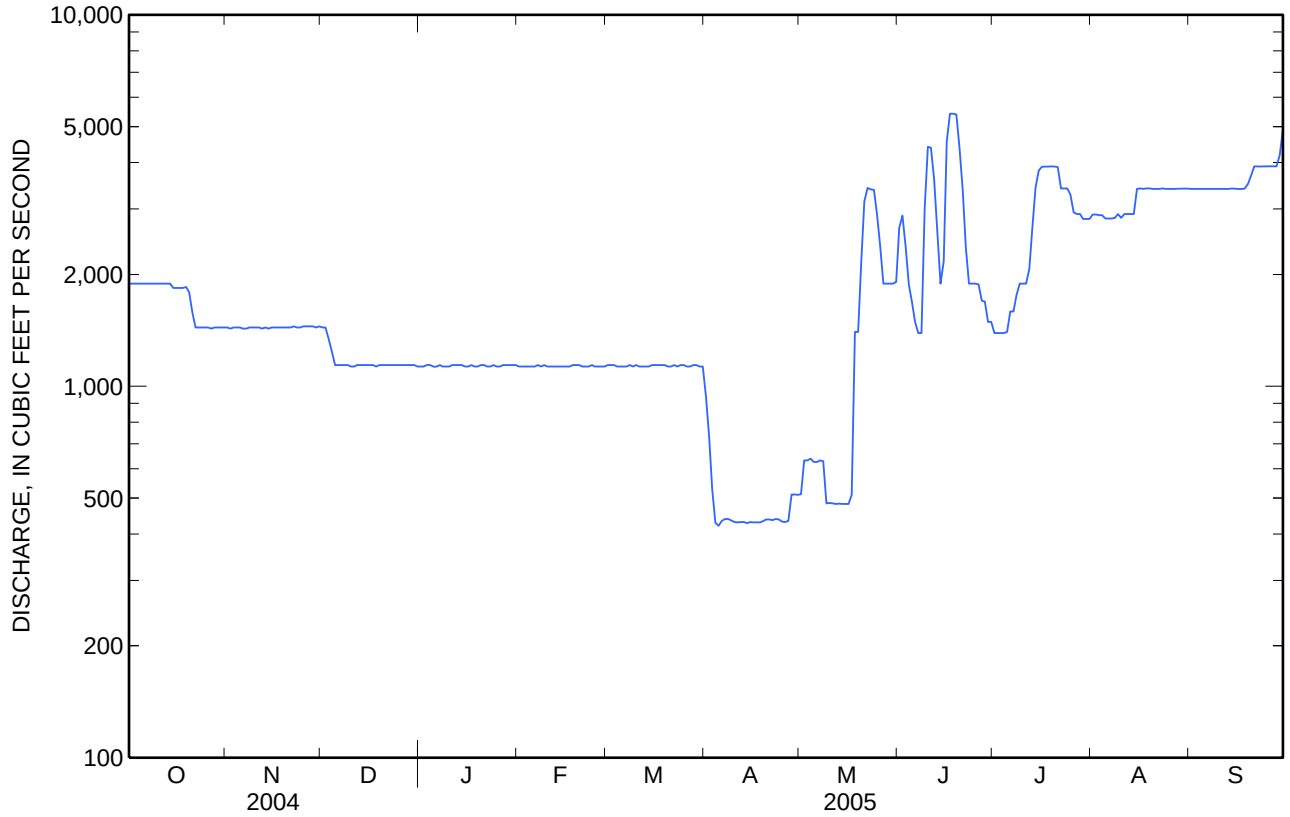
SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1968 - 2005	
Annual total	1,220,050		664,704			
Annual mean	3,333		1,821		3,716	
Highest annual mean					9,352	1983
Lowest annual mean					970	1991
Highest daily mean	16,200	Feb 27	5,420	Jun 17	21,200	Jan 28, 1970
Lowest daily mean	70	Jan 29	421	Apr 5	0.00	Nov 16, 1967
Annual seven-day minimum	479	Jan 28	430	Apr 11	0.00	Nov 16, 1967
Maximum peak flow			5,470	Jun 16	21,600	Jan 28, 1970
Maximum peak stage			4.93	Jun 16	23.30	Jan 28, 1970
Annual runoff (ac-ft)	2,420,000		1,318,000		2,692,000	
10 percent exceeds	6,940		3,410		8,940	
50 percent exceeds	1,890		1,440		2,220	
90 percent exceeds	1,140		512		586