

11427770 MIDDLE FORK AMERICAN RIVER BELOW INTERBAY DAM, NEAR FORESTHILL, CA

Sacramento River Basin

LOCATION.--Lat 39°01'35", long 120°36'09" referenced to North American Datum of 1927, in SW ¼ SE ¼ sec.26, T.14 N., R.12 E., Placer County, Hydrologic Unit 18020128, in Tahoe National Forest, on left bank at Interbay Dam, 3.3 mi upstream from Big Mosquito Creek, and 10.6 mi east of Foresthill.

DRAINAGE AREA.--89.1 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1965 to December 2002, January 2005 to September 2005 (since October 1985, operated as low-flow station only).

GAGE.--Acoustic-velocity meter system. Elevation of gage is 2,470 ft above NGVD of 1929, from topographic map. Prior to February 1986, water-stage recorder at same site. March 1986 to September 1987, nonrecording gage and V-notch sharp-crested weir at same site and datum as previous gage.

REMARKS.--Flow regulated by French Meadows Reservoir (station 11427400) and after Aug. 22, 1966, by Interbay Reservoir (usable capacity, 130 acre-ft, between normal operating limits) 500 ft upstream. Water is diverted out of the basin from French Meadows Reservoir to Hell Hole Reservoir (station 11428700) and from Interbay Reservoir to Ralston Powerplant (station 11427765). Water is diverted into the basin from Hell Hole Reservoir to Middle Fork Powerplant (station 11428600) and through South Fork and North Fork Long Canyon Creek Diversion Tunnels (stations 11433060 and 11433080). Beginning October 1985, only flows less than 35 ft³/s are computed. Gage non-operational from January 2003 thru December 2005. See schematic diagram of Middle Fork American and Rubicon River Basins.

COOPERATION.—Records, including diversion through Ralston Powerplant, provided by Placer County Water Agency, under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 2079.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (water years 1966-85), 9,900 ft³/s, Jan. 13, 1980, gage height, 7.95 ft; minimum daily, 1.0 ft³/s, Oct. 25-30, 1966, Jan. 19, 1967.

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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	---	---	---	---	24	24	24	24	---	25	23	24
2	---	---	---	---	24	24	24	24	---	24	23	24
3	---	---	---	---	24	24	24	24	---	24	23	24
4	---	---	---	---	24	24	24	24	---	24	23	24
5	---	---	---	---	24	24	24	24	---	24	23	24
6	---	---	---	24	24	24	24	24	---	24	23	24
7	---	---	---	24	24	24	24	24	---	24	23	24
8	---	---	---	24	24	24	24	24	---	24	23	23
9	---	---	---	24	24	24	24	24	---	24	23	23
10	---	---	---	24	24	24	24	24	---	24	23	23
11	---	---	---	---	24	24	24	24	---	24	23	23
12	---	---	---	---	24	24	24	24	---	24	23	23
13	---	---	---	---	24	24	24	24	---	24	23	23
14	---	---	---	---	24	24	24	24	---	24	23	23
15	---	---	---	---	24	24	24	24	---	24	24	23
16	---	---	---	---	24	24	24	24	---	24	24	23
17	---	---	---	---	24	24	24	24	---	24	24	23
18	---	---	---	---	23	24	24	24	---	24	24	23
19	---	---	---	---	24	24	24	24	---	24	24	23
20	---	---	---	---	24	24	24	---	---	24	24	23
21	---	---	---	---	24	24	24	---	---	23	24	23
22	---	---	---	25	24	24	24	---	---	24	24	23
23	---	---	---	24	24	24	24	---	---	23	24	23
24	---	---	---	24	24	24	24	---	---	24	24	23
25	---	---	---	24	24	24	24	---	---	24	24	23
26	---	---	---	24	24	24	24	---	---	24	24	23
27	---	---	---	24	24	24	24	---	---	24	24	23
28	---	---	---	24	24	24	24	---	25	23	24	23
29	---	---	---	24	---	24	24	---	25	23	24	23
30	---	---	---	24	---	24	24	---	25	23	24	23
31	---	---	---	24	---	24	---	---	---	23	24	---
Total	---	---	---	---	671	744	720	---	---	739	730	697
Mean	---	---	---	---	24.0	24.0	24.0	---	---	23.8	23.5	23.2
Max	---	---	---	---	24	24	24	---	---	25	24	24
Min	---	---	---	---	23	24	24	---	---	23	23	23
Ac-ft	---	---	---	---	1,330	1,480	1,430	---	---	1,470	1,450	1,380
Diversion, in acre-feet, through Ralston Powerplant	22,520	22,390	40,090	8,450	22,450	27,390	33,340	47,500	55,230	36,720	35,400	28,330

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 1985, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	30.5	27.4	73.8	93.7	86.6	101	117	118	78.2	29.4	18.8	18.3
Max	270	140	548	398	928	508	868	857	313	152	23.7	24.7
(WY)	(1966)	(1984)	(1984)	(1980)	(1982)	(1983)	(1982)	(1982)	(1967)	(1983)	(1983)	(1983)
Min	5.84	6.38	6.22	6.15	9.32	7.61	11.6	11.1	11.3	7.52	5.86	5.68
(WY)	(1978)	(1968)	(1968)	(1968)	(1968)	(1968)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)

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SUMMARY STATISTICS

	Water Years 1966 - 1985	FOR 2004 CALENDAR YEAR	FOR 2005 WATER YEAR
Annual mean	66.0		
Highest annual mean	347	1982	
Lowest annual mean	10.0	1968	
Highest daily mean	8,090	Feb 16, 1982	
Lowest daily mean	1.0	Oct 25, 1966	
Annual seven-day minimum	1.3	Oct 25, 1966	
Maximum peak flow	9,900	Jan 13, 1980	
Maximum peak stage	7.95	Jan 13, 1980	
Annual runoff (ac-ft)	47,810		
Total diversion (ac-ft)^a		329,800	379,800
10 percent exceeds	141		
50 percent exceeds	22		
90 percent exceeds	11		

^a Diversion, in acre-feet, through Ralston Powerplant.