

## 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, CA, 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 mi<sup>2</sup>.

### **SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1965 to December 2002, January 2005 to current year (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.

COOPERATION.--Records, including diversion through Ralston Powerplant (station 11427765), 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.

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. 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 ft<sup>3</sup>/s are computed. Gage non-operational from January 2003 through December 2004. See schematic diagram of Middle Fork American and Rubicon River Basins available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (water years 1966-85), 9,900 ft<sup>3</sup>/s, Jan. 13, 1980, gage height, 7.95 ft; minimum daily, 1.0 ft<sup>3</sup>/s, Oct. 25-30, 1966, Jan. 19, 1967.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e22	---	---	---	---	---	---	24	25	25	25	24
2	e22	---	---	---	---	---	---	24	25	25	25	24
3	e17	---	---	---	---	---	---	24	25	24	25	24
4	e17	---	---	---	---	---	---	24	24	24	24	25
5	e18	---	---	---	---	---	---	24	25	25	25	24
6	e20	---	---	---	---	---	---	25	25	25	25	24
7	e20	---	---	---	---	---	---	25	25	25	25	25
8	e20	---	---	---	---	---	---	25	25	25	25	24
9	e20	---	---	---	---	---	---	25	25	24	24	24
10	e23	---	---	---	---	---	---	25	25	24	24	23
11	e23	---	---	---	---	---	27	25	25	23	24	23
12	e23	---	---	---	---	---	27	25	25	24	24	18
13	e23	---	---	---	---	---	27	25	25	25	25	13
14	e23	---	---	---	---	---	27	25	25	25	25	13
15	e23	---	---	---	---	---	26	25	25	25	25	13
16	---	---	---	---	---	---	26	25	25	25	25	13
17	---	---	---	---	---	---	27	25	25	24	24	15
18	---	---	---	---	---	---	25	25	25	25	25	15
19	---	---	---	---	---	---	24	25	25	25	25	13
20	---	---	---	---	---	---	24	25	25	25	25	13
21	---	---	---	---	---	---	24	25	25	25	25	13
22	---	---	---	---	---	---	24	25	24	25	24	13
23	---	---	---	---	---	---	24	25	25	25	24	13
24	---	---	---	---	---	---	24	24	25	25	24	13
25	---	---	---	---	---	---	24	24	25	24	24	13
26	---	---	---	---	---	---	24	25	25	24	24	13
27	---	---	---	---	---	---	24	25	25	24	24	13
28	---	---	---	---	---	---	24	25	25	24	25	13
29	---	---	---	---	---	---	24	25	25	25	25	13
30	---	---	---	---	---	---	24	25	25	25	24	13
31	---	---	---	---	---	---	---	25	---	25	24	---
<b>Total</b>	---	---	---	---	---	---	---	768	748	763	761	520
<b>Mean</b>	---	---	---	---	---	---	---	24.8	24.9	24.6	24.5	17.3
<b>Max</b>	---	---	---	---	---	---	---	25	25	25	25	25
<b>Min</b>	---	---	---	---	---	---	---	24	24	23	24	13
<b>Ac-ft</b>	---	---	---	---	---	---	---	1,520	1,480	1,510	1,510	1,030
<b>Diversion, in acre-feet, through Ralston Powerplant</b>	0.00	0.00	0.00	0.00	0.00	0.00	21,110	23,990	20,120	32,280	31,490	20,890

**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
<b>Mean</b>	30.5	27.4	73.8	93.7	86.6	101	117	118	78.2	29.4	18.8	18.3
<b>Max</b>	270	140	548	398	928	508	868	857	313	152	23.7	24.7
<b>(WY)</b>	(1966)	(1984)	(1984)	(1980)	(1982)	(1983)	(1982)	(1982)	(1967)	(1983)	(1983)	(1983)
<b>Min</b>	5.84	6.38	6.22	6.15	9.32	7.61	11.6	11.1	11.3	7.52	5.86	5.68
<b>(WY)</b>	(1978)	(1968)	(1968)	(1968)	(1968)	(1968)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)

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SUMMARY STATISTICS

	Calendar Year 2007	Water Year 2008	Water Years 1966 - 1985
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) <sup>a</sup>	178,200	149,900	
10 percent exceeds			141
50 percent exceeds			22
90 percent exceeds			11

<sup>a</sup> Diversion, in acre-feet, through Ralston Powerplant (station 11427765).

