11433060 South Fork Long Canyon Creek Diversion Tunnel near Volcanoville, CA

Sacramento River Basin

LOCATION.--Lat 39°03′04″, long 120°28′14″ referenced to North American Datum of 1927, in SW ¼ NE ¼ sec.24, T.14 N., R.13 E., Placer County, CA, Hydrologic Unit 18020128, in Eldorado National Forest, on right bank at diversion dam, 0.5 mi upstream from unnamed tributary, 3.3 mi upstream from confluence with North and South Forks Long Canyon Creek, and 17.2 mi east of Volcanoville.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1965 to current year.

GAGE.--Water-stage recorder and sharp-crested weir. Elevation of gage is 4,630 ft above NGVD of 1929, from topographic map.

COOPERATION.--Records 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.--Tunnel completed in September 1965; diversion began in February 1966. Flow is diverted from South Fork Long Canyon Creek to a tunnel from Hell Hole Reservoir to Middle Fork Powerplant on the Middle Fork American River. See schematic diagram of Middle Fork American and Rubicon River Basins available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum daily discharge, 251 ft^3/s, Nov. 12, 1973; no flow for part of each year.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	26	3.7	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24	3.0	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24	2.5	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	24	2.1	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	7.9	24	0.63	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	20	24	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	20	26	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	18	25	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	15	23	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	16	22	0.00	0.00	0.00	0.00
11	0.00	0.00	0.00	0.00	0.00	0.00	20	21	0.00	0.00	0.00	0.00
12	0.00	0.00	0.00	0.00	0.00	0.00	25	19	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	30	18	0.00	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	30	17	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	26	17	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	22	17	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	23	15	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	28	13	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	0.00	0.00	28	11	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.00	24	9.0	0.00	0.00	0.00	0.00
21	0.00	0.00	0.00	0.00	0.00	0.00	7.4	8.7	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.9	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.9	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	9.4	0.00	0.00	0.00	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	6.7	9.8	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	23	12	0.00	0.00	0.00	0.00
27	0.00	0.00	0.00	0.00	0.00	0.00	28	9.0	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	31	7.6	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	32	6.2	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	31	5.3	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	4.2	---	0.00	0.00	---
Total	0.00	0.00	0.00	0.00	0.00	0.00	512.00	484.0	11.93	0.00	0.00	0.00
Mean	0.00	0.00	0.00	0.00	0.00	0.00	17.1	15.6	0.40	0.00	0.00	0.00
Max	0.00	0.00	0.00	0.00	0.00	0.00	32	26	3.7	0.00	0.00	0.00
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.2	0.00	0.00	0.00	0.00
Ac-ft	0.00	0.00	0.00	0.00	0.00	0.00	1,020	960	24	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1966 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.00	2.63	4.47	9.42	12.5	21.9	27.9	25.3	7.72	0.26	0.00	0.00
Max	0.03	37.2	38.6	42.1	77.3	77.7	67.8	80.6	54.0	4.54	0.07	0.00
(WY)	(1980)	(1974)	(1984)	(1974)	(1996)	(1989)	(1980)	(1975)	(1998)	(1983)	(1983)	(1972)
Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
(WY)	(1966)	(1966)	(1966)	(1966)	(1991)	(1974)	(1974)	(1974)	(1966)	(1966)	(1966)	(1966)

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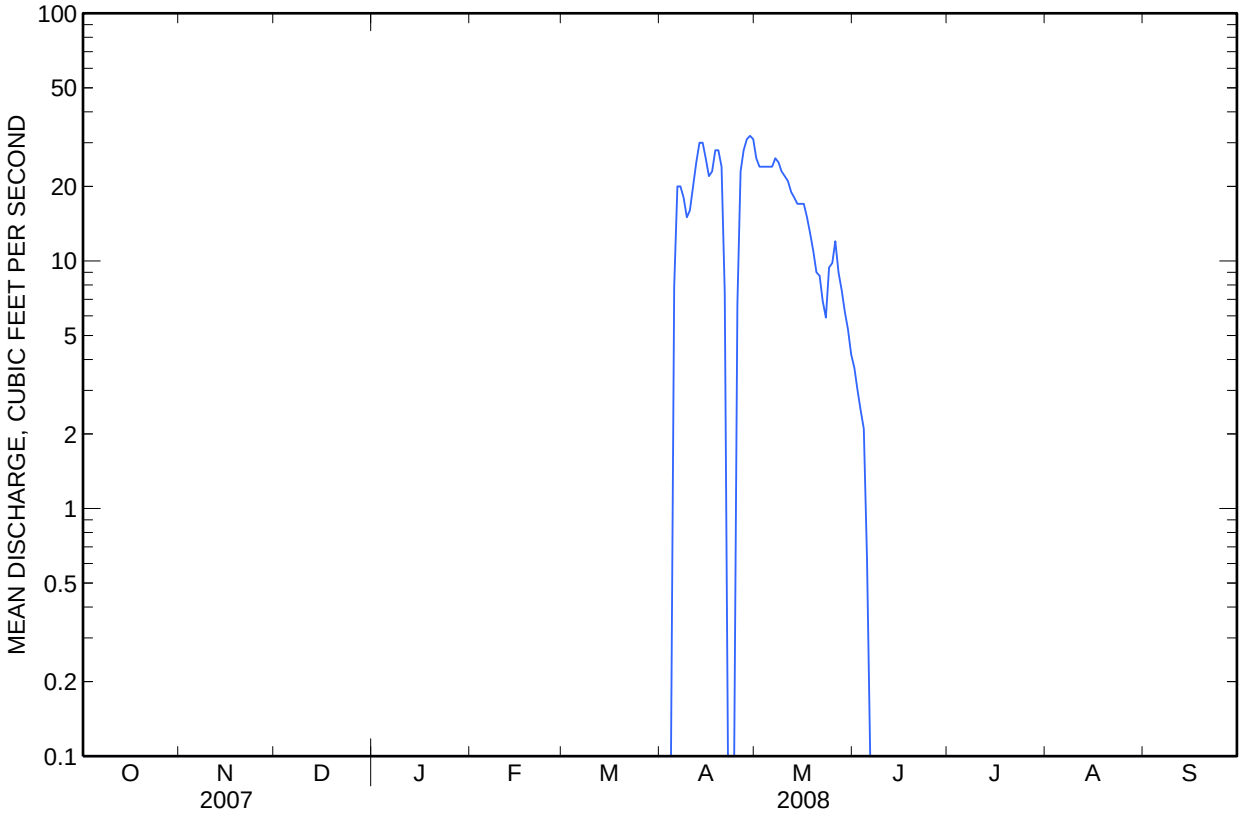
SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1966 - 2008	
Annual total	1,256.09		1,007.93			
Annual mean	3.44		2.75		9.31	
Highest annual mean					24.1	1998
Lowest annual mean					0.28	2006
Highest daily mean	42	Mar 16	32	Apr 29	251	Nov 12, 1973
Lowest daily mean	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1965
Annual seven-day minimum	0.00	Jan 1	0.00	Oct 1	0.00	Oct 1, 1965
Annual runoff (ac-ft)	2,490		2,000		6,750	
10 percent exceeds	16		15		33	
50 percent exceeds	0.00		0.00		0.00	
90 percent exceeds	0.00		0.00		0.00