

11430000 South Fork Rubicon River below Gerle Creek, near Georgetown, CA

Sacramento River Basin

LOCATION.--Lat 38°57'17", long 120°24'02" referenced to North American Datum of 1927, in SW ¼ SW ¼ sec.22, T.13 N., R.14 E., El Dorado County, CA, Hydrologic Unit 18020128, in Eldorado National Forest, on left bank, 600 ft downstream from Gerle Creek, 1.2 mi downstream from South Fork Rubicon River Diversion Dam, and 18 mi east of Georgetown.

DRAINAGE AREA.--47.6 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--February 1910 to June 1914 (published as "Little South Fork Rubicon River below Gerle Creek, near Quintette"), August 1961 to current year.

REVISED RECORDS.--WSP 1931: Drainage area.

GAGE.--Water-stage recorder. Elevation of gage is 4,970 ft above NGVD of 1929, from topographic map. Feb. 1, 1910, to June 21, 1914, nonrecording gage at site about 700 ft downstream at different datum.

COOPERATION.--Records, including diversion to Robbs Peak Powerplant (station 11429300), were collected by Sacramento Municipal Utility District, under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 2101.

REMARKS.--Beginning in 1884, flow regulated by Loon Lake (station 11429350). Original dam was dismantled during September and October 1962 to permit construction of a new earthfill dam completed Dec. 27, 1963. Loon Lake receives water from Rubicon River via Rubicon-Rockbound Tunnel (station 11427940) to Buck Island Lake and from Buck Island Lake to Loon Lake via Buck-Loon Tunnel (station 11428300). Prior to Dec. 3, 1961, water was diverted out of the basin in Georgetown Divide Ditch. Water is diverted 1.2 mi upstream at South Fork Rubicon River Diversion Dam to Robbs Peak Powerplant. Diversion of up to 1,440 ft³/s to Silver Creek Basin began in October 1962. 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, 12,600 ft³/s, Jan. 1, 1997, gage height, 12.65 ft, from rating curve extended above 2,500 ft³/s, on basis of slope-area measurement of peak flow; minimum, 0.8 ft³/s, Sept. 21, 1962.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	12	11	8.6	10	6.5	7.9	6.7	6.9	7.3	7.3	7.1	5.5
2	12	9.6	8.8	10	6.2	7.9	6.1	8.7	9.1	7.5	7.1	5.5
3	12	8.8	8.9	10	6.2	8.0	5.8	8.1	9.3	7.0	7.0	5.5
4	12	8.4	8.8	14	6.3	8.0	7.6	8.4	9.2	7.0	6.9	5.1
5	13	8.2	8.5	12	6.6	8.1	9.4	7.6	9.9	6.8	7.0	5.3
6	13	8.2	8.9	11	6.1	8.6	8.3	7.4	9.4	6.8	6.9	5.6
7	13	8.2	8.6	11	6.4	8.8	8.0	7.1	8.0	7.1	6.9	7.1
8	13	8.5	8.9	11	7.7	8.3	7.8	6.6	8.4	6.7	6.7	5.8
9	13	8.5	10	10	14	8.5	7.5	6.3	8.6	6.6	6.6	5.5
10	13	8.5	9.9	10	55	8.9	7.2	6.0	8.5	6.7	6.7	5.2
11	13	8.9	9.3	10	118	9.5	7.4	8.9	8.5	7.0	6.4	6.1
12	13	8.5	11	8.8	15	10	7.8	7.5	8.1	6.4	6.3	9.1
13	13	9.5	11	8.3	11	9.4	7.4	7.6	8.2	6.4	6.3	8.5
14	13	11	11	8.4	10	9.9	7.7	7.8	8.0	6.3	6.1	6.0
15	13	8.8	11	9.0	9.5	10	7.5	8.4	7.7	6.1	6.0	5.9
16	13	8.9	10	8.9	9.0	11	7.2	8.2	7.6	6.0	6.1	6.0
17	13	8.5	9.9	7.7	8.7	11	7.4	8.2	7.6	6.0	6.0	5.0
18	13	8.3	9.8	7.3	8.3	10	7.7	8.2	7.2	6.4	5.7	5.0
19	13	8.5	9.7	7.0	8.2	10	6.7	8.2	6.6	6.4	5.5	5.5
20	13	8.8	9.6	6.8	8.1	9.9	6.6	8.2	6.4	6.1	5.5	5.4
21	13	9.2	11	6.6	8.2	9.3	7.0	8.3	7.0	5.9	5.4	5.0
22	13	8.4	10	6.6	8.4	8.3	11	7.8	7.2	5.7	5.1	5.0
23	13	8.9	9.8	6.6	8.1	7.8	10	7.5	7.2	5.6	5.3	5.4
24	13	8.4	9.7	6.8	7.9	7.8	9.8	7.3	7.6	8.0	5.6	5.2
25	13	8.4	9.4	6.6	8.6	7.4	9.4	7.4	7.5	7.1	5.7	6.5
26	13	8.7	11	6.8	8.9	7.8	8.6	7.2	7.0	7.2	5.6	9.1
27	13	9.0	12	6.6	9.9	7.8	7.9	7.3	6.6	7.2	5.7	7.8
28	13	8.7	10	6.7	8.0	7.3	7.8	7.1	7.0	7.1	5.7	7.2
29	13	8.9	10	6.7	---	7.2	7.5	7.0	6.5	7.1	5.8	7.2
30	13	8.7	10	6.8	---	7.4	7.0	7.0	6.8	7.0	5.8	6.9
31	13	---	10	6.9	---	7.5	---	7.0	---	7.0	5.7	---
Total	399	264.9	305.1	264.9	394.8	269.3	233.8	235.2	234.0	207.5	190.2	183.9
Mean	12.9	8.83	9.84	8.55	14.1	8.69	7.79	7.59	7.80	6.69	6.14	6.13
Max	13	11	12	14	118	11	11	8.9	9.9	8.0	7.1	9.1
Min	12	8.2	8.5	6.6	6.1	7.2	5.8	6.0	6.4	5.6	5.1	5.0
Ac-ft	791	525	605	525	783	534	464	467	464	412	377	365
Diversion, in acre-feet, to Robbs Peak Powerplant	1,150	2,050	3,530	9,630	10,720	20,690	16,770	20,430	6,840	8,360	6,470	6,000

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	11.0	17.3	38.7	52.7	33.3	18.8	13.8	25.5	18.9	12.6	9.45	9.64
Max	52.2	268	396	530	524	130	141	276	249	92.5	13.2	22.3
(WY)	(1963)	(1984)	(1965)	(1997)	(1986)	(1986)	(1982)	(1996)	(1983)	(1967)	(2003)	(1982)
Min	2.40	2.75	4.79	4.86	5.03	3.11	2.35	2.42	2.29	2.36	2.03	1.99
(WY)	(1978)	(1978)	(1968)	(1968)	(1966)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)	(1977)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1963 - 2007	
Annual total	9,457.4		3,182.6			
Annual mean	25.9		8.72		21.8	
Highest annual mean					67.1	1997
Lowest annual mean					3.59	1977
Highest daily mean	875	Feb 28	118	Feb 11	8,050	Jan 1, 1997
Lowest daily mean	7.7	Feb 20	5.0	Sep 17	1.3	Sep 29, 1963
Annual seven-day minimum	7.8	Feb 19	5.2	Sep 17	1.5	Sep 28, 1963
Maximum peak flow			441	Feb 11	12,600	Jan 1, 1997
Maximum peak stage			4.73	Feb 11	12.65	Jan 1, 1997
Annual runoff (ac-ft)	18,760		6,310		15,790	
Annual diversion (ac-ft)^a	275,500		112,600			
10 percent exceeds	23		12		13	
50 percent exceeds	12		8.0		8.9	
90 percent exceeds	8.7		6.0		5.4	

^a Diversion, in acre-feet, to Robbs Peak Powerplant.

