

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, 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, 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 (station 11429300). 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.

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.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2005 TO SEPTEMBER 2006
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	11	9.9	72	309	12	16	11	79	17	12	12	12
2	11	7.0	153	504	105	13	11	24	12	12	12	12
3	11	6.8	10	157	17	12	109	23	12	12	12	12
4	12	7.5	9.0	214	17	10	234	20	12	12	12	12
5	11	7.2	8.3	186	15	10	22	19	12	12	12	12
6	11	7.0	8.4	168	12	10	17	18	29	12	12	12
7	11	6.6	8.0	194	12	9.8	16	17	17	11	12	12
8	12	6.8	8.1	15	11	9.5	18	17	12	11	12	12
9	11	6.6	8.1	14	11	9.3	16	25	12	12	12	12
10	11	6.7	8.0	13	10	9.3	16	31	12	11	12	12
11	11	6.6	7.7	13	10	9.1	19	15	12	11	12	12
12	11	6.7	7.5	12	10	8.7	27	17	12	12	12	12
13	11	6.4	7.9	11	9.8	8.4	23	38	12	12	12	12
14	11	6.4	7.8	12	9.1	8.6	114	14	12	12	12	12
15	11	6.4	8.3	11	8.7	8.2	353	13	13	12	12	12
16	11	6.6	7.9	11	8.3	8.2	218	43	13	12	12	12
17	11	6.8	7.9	11	8.3	9.1	35	13	12	12	11	12
18	11	6.7	23	12	8.3	8.9	21	14	12	12	12	12
19	12	6.7	22	27	8.0	8.6	17	15	12	12	12	12
20	12	6.6	12	156	7.7	9.0	19	20	12	12	12	12
21	12	6.3	20	70	7.9	8.5	23	116	12	12	12	12
22	12	6.4	1,350	12	7.9	8.8	36	14	12	12	12	12
23	11	7.2	99	10	7.7	8.9	19	14	12	12	12	12
24	12	7.4	12	10	7.7	9.2	24	18	12	12	12	12
25	12	8.9	14	11	7.7	17	27	20	12	12	12	14
26	12	8.3	22	9.8	8.5	13	25	13	12	12	12	15
27	12	8.3	18	8.9	572	13	33	13	12	12	12	11
28	12	8.7	914	9.0	875	14	160	12	12	12	12	12
29	12	11	30	10	---	12	135	12	12	12	12	12
30	28	9.5	1,340	12	---	12	114	12	12	12	12	12
31	12	---	5,490	12	---	12	---	12	---	12	12	---
Total	371	220.0	9,713.9	2,224.7	1,804.6	324.1	1,912	731	389	368	371	364
Mean	12.0	7.33	313	71.8	64.5	10.5	63.7	23.6	13.0	11.9	12.0	12.1
Max	28	11	5,490	504	875	17	353	116	29	12	12	15
Min	11	6.3	7.5	8.9	7.7	8.2	11	12	12	11	11	11
Ac-ft	736	436	19,270	4,410	3,580	643	3,790	1,450	772	730	736	722
Diversion, in acre-feet, to Robbs Peak Powerplant	9,550	3,130	24,060	35,560	26,750	25,230	49,260	57,730	42,550	18,450	8,240	5,010

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1963 - 2006, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	10.9	17.5	39.3	53.7	33.7	19.1	14.0	25.9	19.2	12.7	9.52	9.72
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)

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

SUMMARY STATISTICS

	Calendar Year 2005		Water Year 2006		Water Years 1963 - 2006	
Annual total	14,960.9		18,793.3			
Annual mean	41.0		51.5		22.1	
Highest annual mean					67.1	1997
Lowest annual mean					3.59	1977
Highest daily mean	5,490	Dec 31	5,490	Dec 31	8,050	Jan 1, 1997
Lowest daily mean	6.2	Jan 6	6.3	Nov 21	1.3	Sep 29, 1963
Annual seven-day minimum	6.5	Nov 9	6.5	Nov 9	1.5	Sep 28, 1963
Maximum peak flow			8,660	Dec 31	12,600	Jan 1, 1997
Maximum peak stage			11.37	Dec 31	12.65	Jan 1, 1997
Annual runoff (ac-ft)	29,670		37,280		16,000	
Annual diversion (ac-ft) ^a	235,800		305,500			
10 percent exceeds	15		29		13	
50 percent exceeds	11		12		8.9	
90 percent exceeds	7.3		8.0		5.3	

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

