Water-Data Report 2013

11444201 Rock Creek near Placerville, CA

Sacramento River Basin

LOCATION.--Lat 38°47′40″, long 120°46′28″ referenced to North American Datum of 1927, in NE ¼ NW ¼ sec.20, T.11 N., R.11 E., El Dorado County, CA, Hydrologic Unit 18020129, on left bank, 500 ft downstream from Rock Creek Road, and 4.0 mi north of Placerville.

DRAINAGE AREA.--73.0 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1986 to September 2008, October 2009 to September 2010, October 2011 to current year.

GAGE.--Water-stage recorder and broad-crested weir; water-stage recorder and sharp-crested weir. Elevation of gages is 1,305 ft above NGVD of 1929, from topographic map.

COOPERATION.--Records, including discharge through Rock Creek Powerplant (station 11444280), provided by Rock Creek Limited Partnership, under general supervision of the U.S. Geological Survey, in connection with Federal Energy Regulatory Commission project no. 3189.

REMARKS.--Flow at this station has two components which are combined for publication: flow over a broad-crested weir (station 11444200) and flow over a sharp-crested weir (station 11444260). Water is diverted upstream from weirs through a tunnel to Rock Creek Powerplant, returning to Rock Creek at its confluence with the South Fork American River. Extremes represent combined flows. See schematic diagram of South Fork American River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 6,690 ft^3/s, Jan. 2, 1997; no flow Sept. 29 to Oct. 3, 1987.

Suggested citation: U.S. Geological Survey, 2014, Water-resources data for the United States, Water Year 2013: U.S. Geological Survey Water-Data Report WDR-US-2013, site 11444201, accessed at http://wdr.water.usgs.gov/wy2013/pdfs/11444201.2013.pdf

11444201 Rock Creek near Placerville, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

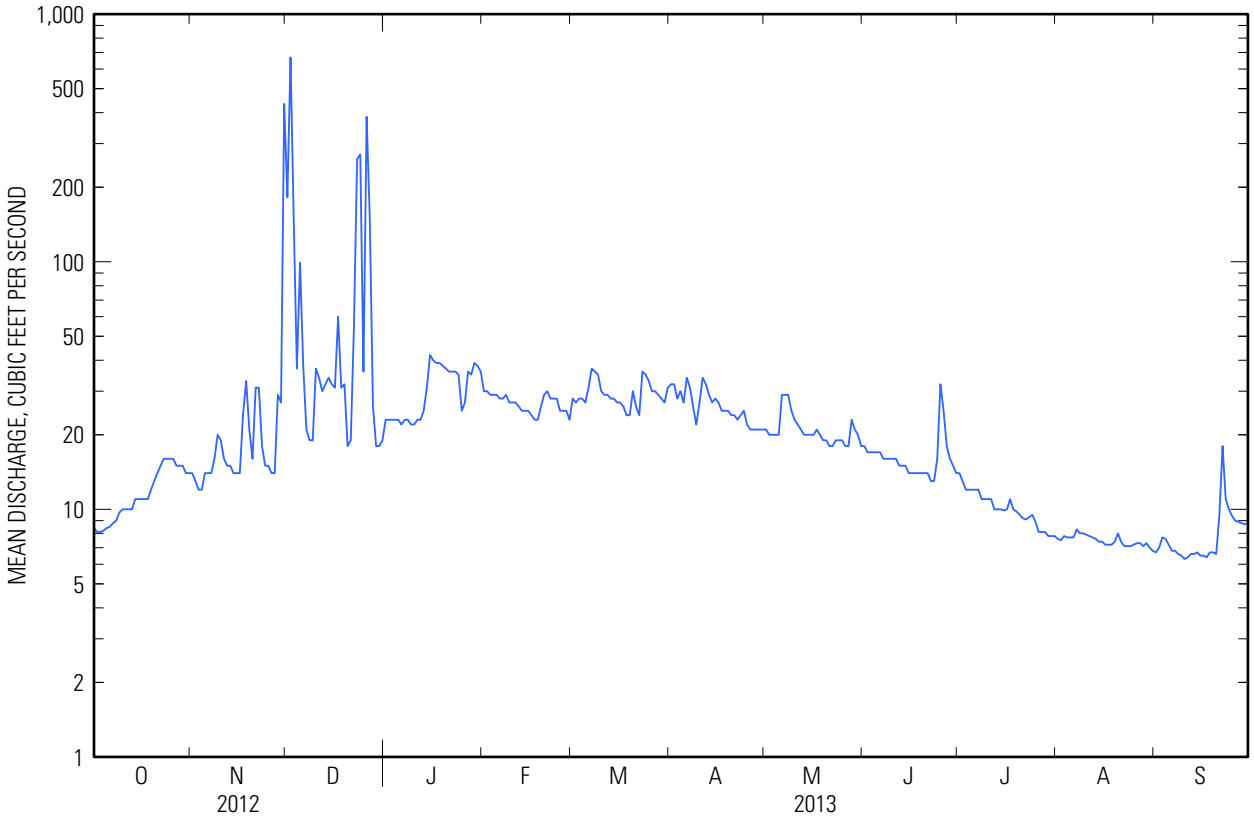
Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e8.4	e14	182	23	30	28	32	21	18	14	e7.6	6.7
2	e8.1	e13	669	23	30	27	32	20	17	13	e7.5	7.0
3	e8.1	e12	148	23	29	28	28	20	17	12	7.8	7.7
4	e8.2	e12	37	23	29	28	30	20	17	12	7.7	7.6
5	e8.4	e14	99	23	29	27	27	20	17	12	7.7	7.2
6	e8.5	e14	38	22	28	31	34	29	17	12	7.7	6.8
7	e8.8	e14	21	23	28	37	31	29	16	12	8.3	6.8
8	e9.0	16	19	23	29	36	26	29	16	11	8.0	6.6
9	e9.7	20	19	22	27	35	22	25	16	11	8.0	6.5
10	e10	19	37	22	27	30	27	23	16	11	7.9	6.3
11	e10	16	34	23	27	29	34	22	16	11	7.8	6.4
12	e10	15	30	23	26	29	32	21	15	10	7.7	6.6
13	e10	15	32	25	25	28	29	20	15	10	7.6	6.6
14	e11	14	34	31	25	28	27	20	15	10	7.4	6.7
15	e11	14	32	42	25	27	28	20	14	9.9	7.4	6.5
16	e11	14	31	40	24	27	27	20	14	10	7.2	6.5
17	e11	24	60	39	23	26	25	21	14	11	7.2	6.4
18	e11	33	31	39	23	24	25	20	14	10	7.2	6.7
19	e12	21	32	38	26	24	25	19	14	9.8	7.4	6.7
20	e13	16	18	37	29	30	24	19	14	9.5	8.0	6.6
21	e14	31	19	36	30	26	24	18	14	9.2	7.4	9.5
22	e15	31	55	36	28	24	23	18	13	9.1	7.1	18
23	e16	18	260	36	28	36	24	19	13	9.3	7.1	11
24	e16	15	271	35	28	35	25	19	16	9.5	7.1	10
25	e16	15	36	25	25	33	22	19	32	e8.9	7.2	9.4
26	e16	14	385	27	25	30	21	18	25	e8.1	7.3	9.0
27	e15	14	149	36	25	30	21	18	18	e8.1	7.3	8.9
28	e15	29	26	35	23	29	21	23	16	e8.1	7.1	8.8
29	e15	27	18	39	---	28	21	21	15	e7.8	7.3	8.7
30	e14	434	18	38	---	27	21	20	14	e7.8	7.0	8.8
31	e14	---	19	36	---	31	---	18	---	e7.8	6.8	---
Total	363.2	958	2,859	943	751	908	788	649	488	314.9	231.8	237.0
Mean	11.7	31.9	92.2	30.4	26.8	29.3	26.3	20.9	16.3	10.2	7.48	7.90
Max	16	434	669	42	30	37	34	29	32	14	8.3	18
Min	8.1	12	18	22	23	24	21	18	13	7.8	6.8	6.3
Ac-ft	720	1,900	5,670	1,870	1,490	1,800	1,560	1,290	968	625	460	470
Discharge, in acre-feet, through Rock Creek Powerplant												
	0.00	214	3,980	1,120	0.80	234	0.00	0.00	0.00	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1987 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	13.8	21.2	56.6	107	92.2	86.0	56.4	30.1	20.1	15.3	12.2	10.5
Max	25.0	36.6	403	737	326	454	494	127	31.5	35.2	39.2	25.7
(WY)	(2001)	(1999)	(1997)	(1997)	(1998)	(1995)	(2006)	(1995)	(1995)	(1999)	(1999)	(1998)
Min	4.60	6.15	9.97	11.4	12.5	16.4	16.6	11.3	6.35	3.18	1.97	1.86
(WY)	(1993)	(1993)	(1990)	(1991)	(1991)	(1988)	(1994)	(1992)	(1992)	(1988)	(1994)	(1992)

11444201 Rock Creek near Placerville, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2012		Water Year 2013		Water Years 1987 - 2013	
Annual total	13,307.5		9,490.9			
Annual mean	36.4		26.0		43.2	
Highest annual mean					118	1997
Lowest annual mean					14.3	1988
Highest daily mean	881	Mar 17	669	Dec 2	4,660	Jan 2, 1997
Lowest daily mean	8.1	Oct 2	6.3	Sep 10	0.00	Sep 29, 1987
Annual seven-day minimum	8.3	Sep 28	6.5	Sep 9	0.35	Sep 28, 1987
Maximum peak flow			669	Dec 2	6,690	Jan 2, 1997
Annual runoff (ac-ft)	26,400		18,830		31,330	
Annual runoff (ac-ft)[a]	41,330		24,870			
Total diversion (ac-ft)[b]	14,940		5,550			
10 percent exceeds	38		34		55	
50 percent exceeds	21		19		21	
90 percent exceeds	11		7.6		6.2	

[a] Adjusted for Rock Creek Powerplant near Placerville.
[b] Discharge, in acre-feet, through Rock Creek Powerplant (station 11444280).