Water-Data Report 2011

11014000 Jamul Creek near Jamul, CA

Otay River Basin

LOCATION.--Lat 32°38′15″, long 116°53′00″ referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.4, T.18 S., R.1 E., San Diego County, CA, Hydrologic Unit 18070304, on right bank, 300 ft upstream from Otay Road crossing at upper end of Lower Otay Lake, 1.4 mi downstream from Dulzura Creek, and 5.5 mi south of Jamul.

DRAINAGE AREA.--70.1 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--April 1940 to December 1940, April 1941 to September 1978, October 1985 to current year.

REVISED RECORDS.--WSP 1565: 1952, 1954. WSP 1715: 1944, 1946. WDR CA-93-1: Drainage area. WDR CA-94-1: Datum of gage.

GAGE.--Water-stage recorder and broad-crested weir control with low-water venturi-type flume. Datum of gage is 511.89 ft above NGVD of 1929. Prior to Oct. 1, 1951, at datum 1.00 ft higher.

REMARKS.--Records fair except for estimated daily discharges, which are poor. No regulation upstream from station. Water is diverted from Cottonwood Creek at Barrett Lake (station 11011000) via San Diego and Dulzura Conduit into Dulzura Creek, a tributary to Jamul Creek, and is included in discharge for this station.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,870 ft^3/s, Mar. 5, 1995, gage height, 7.59 ft, present datum, from rating curve extended above 1,200 ft^3/s, on basis of critical-depth computations; no flow for many days most years.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft^3/s and (or) maximum (*), from rating curve extended above 1,200 ft^3/s on basis of critical-depth computations:

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 22	1515	294	3.50
Feb 20	0745	265	3.45
Feb 26	1745	*449	*3.71

11014000 Jamul Creek near Jamul, CA—Continued

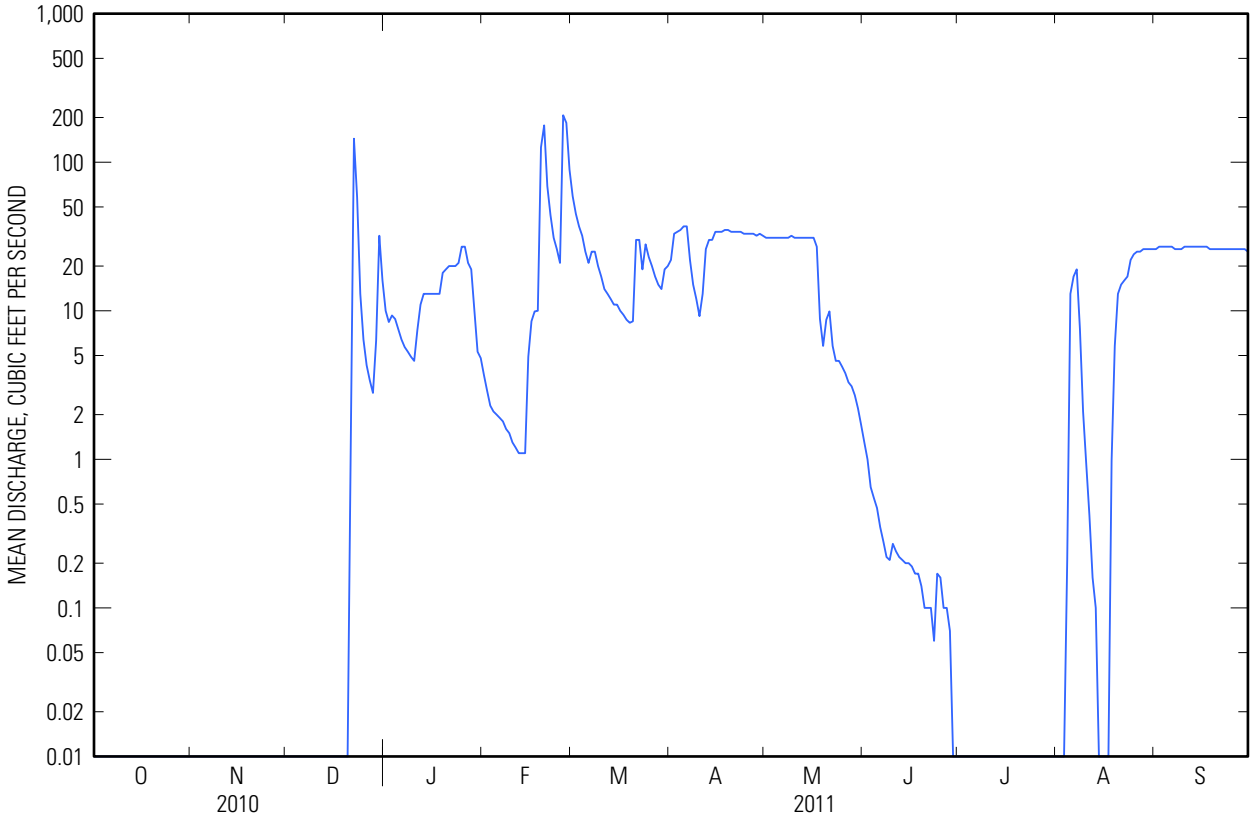
DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2010 TO SEPTEMBER 2011
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.00	10	3.7	59	22	31	e1.3	0.00	0.00	26
2	0.00	0.00	0.00	8.4	2.9	45	33	31	e1.0	0.00	0.00	27
3	0.00	0.00	0.00	9.3	2.3	37	34	31	e0.65	0.00	0.00	27
4	0.00	0.00	0.00	8.8	2.1	32	35	31	e0.55	0.00	0.21	27
5	0.00	0.00	0.00	7.5	2.0	25	37	31	e0.47	0.00	13	27
6	0.00	0.00	0.00	6.4	1.9	21	37	31	e0.35	e0.00	17	27
7	0.00	0.00	0.00	5.7	1.8	25	22	31	e0.28	e0.00	19	26
8	0.00	0.00	0.00	5.3	1.6	25	15	31	0.22	0.00	7.6	26
9	0.00	0.00	0.00	4.9	1.5	20	12	32	0.21	0.00	2.1	26
10	0.00	0.00	0.00	4.6	1.3	17	9.2	31	0.27	0.00	0.93	27
11	0.00	0.00	0.00	7.4	1.2	14	13	31	0.24	0.00	0.42	27
12	0.00	0.00	0.00	11	1.1	13	26	31	0.22	0.00	0.16	27
13	0.00	0.00	0.00	13	1.1	12	30	31	0.21	0.00	0.10	27
14	0.00	0.00	0.00	13	1.1	11	30	31	0.20	0.00	0.00	27
15	0.00	0.00	0.00	13	4.9	11	34	31	0.20	0.00	0.00	27
16	0.00	0.00	0.00	13	8.5	10	34	31	0.19	0.00	0.00	27
17	0.00	0.00	0.00	13	9.9	9.4	34	27	0.17	0.00	0.00	27
18	0.00	0.00	0.00	13	10	8.7	35	8.8	0.17	0.00	0.98	26
19	0.00	0.00	0.00	18	126	8.3	35	5.8	0.14	0.00	5.8	26
20	0.00	0.00	0.00	19	177	8.5	34	8.7	0.10	0.00	13	26
21	0.00	0.00	1.3	20	69	30	34	9.9	0.10	0.00	15	26
22	0.00	0.00	144	20	44	30	34	5.8	0.10	0.00	16	26
23	0.00	0.00	58	20	31	19	34	4.6	0.06	0.00	17	26
24	0.00	0.00	13	21	26	28	33	e4.6	0.17	0.00	22	26
25	0.00	0.00	6.4	27	21	23	33	e4.2	0.16	0.00	24	26
26	0.00	0.00	4.3	27	207	20	33	e3.8	0.10	0.00	25	26
27	0.00	0.00	3.4	21	184	17	33	e3.3	0.10	0.00	25	26
28	0.00	0.00	2.8	19	e89	15	32	e3.1	0.07	0.00	26	26
29	0.00	0.00	6.3	10	---	14	33	e2.7	0.00	0.00	26	26
30	0.00	0.00	32	5.3	---	19	32	e2.2	0.00	0.00	26	25
31	0.00	---	16	4.8	---	20	---	e1.7	---	0.00	26	---
Total	0.00	0.00	287.50	399.4	1,032.9	646.9	892.2	593.2	8.00	0.00	328.30	792
Mean	0.00	0.00	9.27	12.9	36.9	20.9	29.7	19.1	0.27	0.00	10.6	26.4
Max	0.00	0.00	144	27	207	59	37	32	1.3	0.00	26	27
Min	0.00	0.00	0.00	4.6	1.1	8.3	9.2	1.7	0.00	0.00	0.00	25
Ac-ft	0.00	0.00	570	792	2,050	1,280	1,770	1,180	16	0.00	651	1,570

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.61	8.14	9.01	17.0	20.3	26.0	17.2	13.6	13.0	11.1	9.76	8.02
Max	40.2	45.6	62.5	415	188	254	101	49.1	49.6	51.7	44.4	37.4
(WY)	(1948)	(1946)	(1946)	(1993)	(1998)	(1995)	(1958)	(1954)	(1952)	(1995)	(1995)	(1947)
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)	(1950)	(1951)	(1951)	(1958)	(1961)	(1959)	(1955)	(1956)	(1953)	(1950)	(1949)	(1949)

11014000 Jamul Creek near Jamul, CA—Continued

SUMMARY STATISTICS

	Calendar Year 2010		Water Year 2011		Water Years 1940 - 2011	
Annual total	2,031.92		4,980.40			
Annual mean	5.57		13.6		13.1	
Highest annual mean					55.2	1995
Lowest annual mean					0.00	1961
Highest daily mean	208	Jan 22	207	Feb 26	2,320	Jan 16, 1993
Lowest daily mean	0.00	Jan 1	0.00	Oct 1	0.00	Jul 17, 1949
Annual seven-day minimum	0.00	Jan 1	0.00	Oct 1	0.00	Jul 17, 1949
Maximum peak flow			449	Feb 26	5,870	Mar 5, 1995
Maximum peak stage			3.71	Feb 26	7.59	Mar 5, 1995
Annual runoff (ac-ft)	4,030		9,880		9,500	
10 percent exceeds	12		31		37	
50 percent exceeds	0.00		4.6		0.20	
90 percent exceeds	0.00		0.00		0.00