Water-Data Report 2007

11042800 Warm Springs Creek near Murrieta, CA

Santa Margarita River Basin

LOCATION.--Lat 33°31′56″, long 117°10′34″ referenced to North American Datum of 1927, Riverside County, CA, Hydrologic Unit 18070302, in Temecula Grant, on left bank, at upstream end of Jefferson Road Bridge, 0.6 mi upstream from mouth, and 2.8 mi southeast of Murrieta.

DRAINAGE AREA.--55.4 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1987 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 1,040 ft above NGVD of 1929, from topographic map.

REMARKS.--Records are poor. Gage out of operation for channel work from Nov. 5, 1991, to June 10, 1992. Rancho California Water District can discharge into creek from automated pump, approximately 0.1 mi upstream from station. Beginning in water year 1999, flows partly regulated by Diamond Valley Lake, capacity, 800,000 acre-ft. Diamond Valley Lake is used to store imported water. Construction of Diamond Valley Lake, beginning in 1996, permanently rerouted 2.4 mi^2 of drainage area in Goodhart Canyon out of the Warm Springs Creek Basin and into the Santa Ana River Basin. Compensatory releases to Warm Springs Creek from Diamond Valley Lake may occur at times. See schematic diagram of Santa Margarita River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,570 ft^3/s, Jan. 17, 1993, gage height, 8.59 ft, from rating curve extended above 2,190 ft^3/s; no flow for many days each year.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 50 ft^3/s and (or) maximum (*), from rating curve extended above 2,190 ft^3/s:

[e, estimated]

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Dec 9	2345	e*69	*4.47

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.01	0.00	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00	0.00
2	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	e2.3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	e6.8	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	e0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	e0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.00	e0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.02	0.00	e5.4	0.00	0.00	0.00	0.00	0.01
21	0.00	0.00	0.00	0.00	0.00	0.00	e2.1	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.00	0.00	e0.65	0.00	e0.43	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	0.00	0.00	e1.8	0.00	e0.18	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.00	0.00	e0.22	0.00	0.04	0.00	0.00	0.00	0.01	0.00
25	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	e1.2	0.00
27	0.00	0.04	e0.31	0.00	e0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	0.00	0.00	e1.2	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	0.00	0.00
31	0.00	---	0.00	0.00	---	0.00	---	0.00	---	0.00	0.00	---
Total	0.15	0.04	9.73	0.00	4.50	0.04	8.15	0.00	0.00	0.00	1.21	0.01
Mean	0.00	0.00	0.31	0.00	0.16	0.00	0.27	0.00	0.00	0.00	0.04	0.00
Max	0.11	0.04	6.8	0.00	1.8	0.04	5.4	0.00	0.00	0.00	1.2	0.01
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
Ac-ft	0.3	0.08	19	0.00	8.9	0.08	16	0.00	0.00	0.00	2.4	0.02

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1988 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.80	0.28	1.25	19.9	19.9	8.51	1.23	0.33	0.17	0.05	0.03	0.01
Max	14.3	2.86	13.5	226	116	74.0	6.19	2.99	2.93	0.71	0.41	0.13
(WY)	(2005)	(2005)	(2005)	(1993)	(1998)	(1991)	(1998)	(1998)	(1998)	(1998)	(1999)	(2000)
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)	(1989)	(1989)	(1990)	(2007)	(1989)	(1988)	(1989)	(1989)	(1988)	(1989)	(1988)	(1988)

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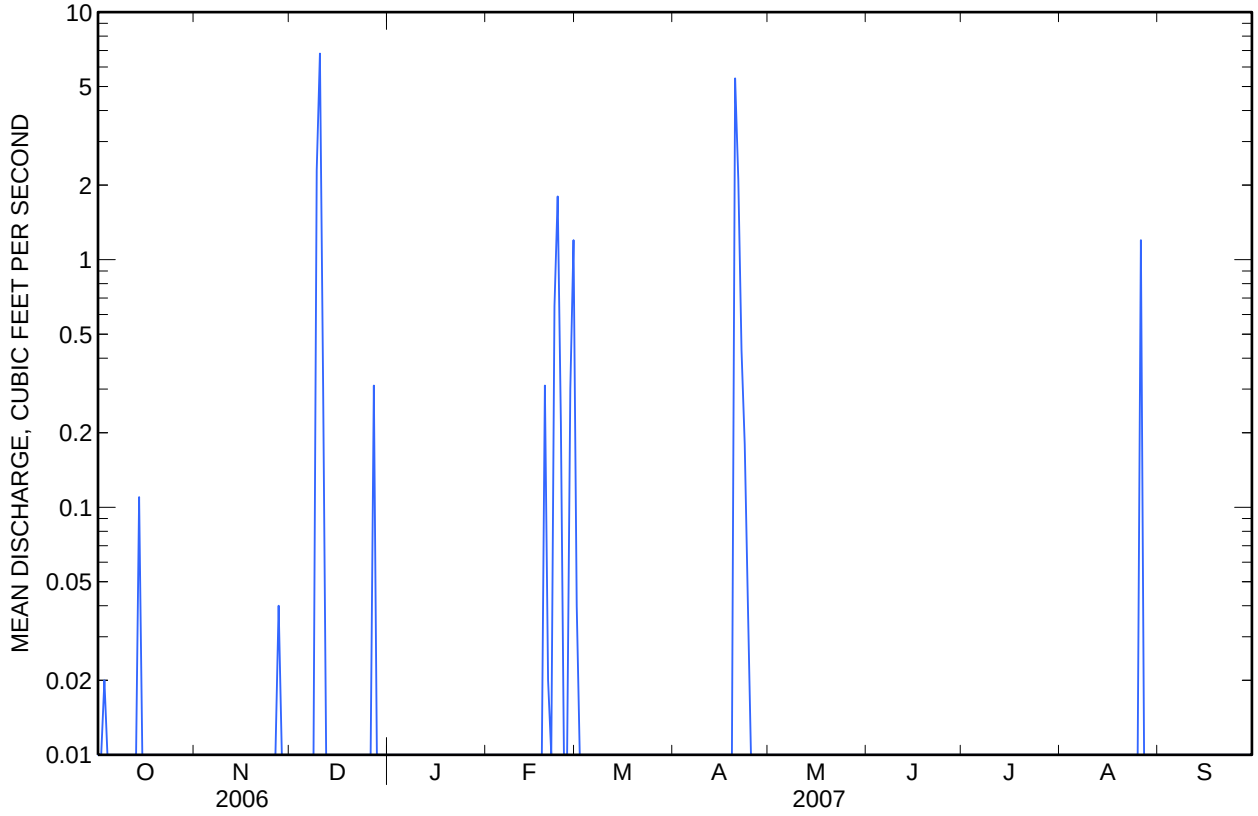
SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1988 - 2007	
Annual total	481.02		23.83			
Annual mean	1.32		0.07		4.30	
Highest annual mean					27.6	1993
Lowest annual mean					0.05	2002
Highest daily mean	107	Apr 5	6.8	Dec 10	2,070	Jan 16, 1993
Lowest daily mean	0.00	Feb 7	0.00	Oct 4	0.00	Oct 1, 1987
Annual seven-day minimum	0.00	Feb 9	0.00	Oct 4	0.00	Oct 1, 1987
Maximum peak flow			e69	Dec 9	5,570	Jan 17, 1993
Maximum peak stage			4.47	Dec 9	8.59	Jan 17, 1993
Annual runoff (ac-ft)	954		47		3,120	
10 percent exceeds	0.95		0.00		0.91	
50 percent exceeds	0.00		0.00		0.00	
90 percent exceeds	0.00		0.00		0.00