

Water-Data Report 2011

11045300 Fallbrook Creek near Fallbrook, CA

Santa Margarita River Basin

LOCATION.--Lat 33°20'49", long 117°19'01" referenced to North American Datum of 1927, in SE ¼ SE ¼ sec.32, T.9 S., R.4 W., San Diego County, CA, Hydrologic Unit 18070302, on Camp Joseph H. Pendleton Naval Reservation, on right bank, at culvert on DeLuz Road, 0.75 mi upstream from O'Neill Lake, and 4.5 mi southwest of Fallbrook.

DRAINAGE AREA.--6.97 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 1993 to current year. Discharge records for October 1964 to September 1977 and October 1989 to September 1993 available in files of U.S. Marine Corps at Camp Pendleton.

GAGE.--Water-stage recorder, crest-stage gage, and concrete control with low-water Parshall flume. Elevation of gage is 190 ft above NGVD of 1929, from topographic map.

REMARKS.--Records fair. Slight regulation by two small storage reservoirs upstream from station. See schematic diagram of Santa Margarita River Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 895 ft³/s, Feb. 23, 1998, gage height, 9.73 ft, from rating curve extended above 140 ft³/s, on basis of culvert computation; no flow for many days in some years.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 100 ft³/s and (or) maximum (*), from rating curve extended as explained above:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Dec 22	0400	*749	*8.67
Dec 29	1530	138	2.91
Feb 26	0805	117	2.62
Mar 21	0450	111	2.54

Water-Data Report 2011

11045300 Fallbrook Creek near Fallbrook, CA—Continued

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.44	0.64	1.9	0.89	1.0	0.58	0.43	0.44	0.13	0.05	0.01
2	0.00	0.40	0.60	1.8	0.62	0.88	0.58	0.44	0.43	0.13	0.04	0.01
3	0.00	0.33	0.58	19	0.54	0.81	0.54	0.43	0.42	0.12	0.04	0.01
4	0.00	0.19	0.54	5.0	0.52	0.73	0.51	0.43	0.44	0.11	0.04	0.01
5	0.00	0.15	0.52	2.2	0.52	0.69	0.52	0.37	0.44	0.11	0.06	0.02
6	0.01	0.16	0.50	1.7	0.51	0.65	0.52	0.38	0.42	0.11	0.06	0.02
7	0.00	0.17	0.48	1.4	0.52	2.8	0.51	0.38	0.41	0.10	0.06	0.02
8	0.00	0.19	0.43	1.2	0.58	1.4	0.52	0.38	0.39	0.11	0.06	0.02
9	0.00	0.16	0.31	1.1	0.55	0.67	0.68	0.39	0.38	0.11	0.07	0.02
10	0.00	0.17	0.24	1.0	0.54	0.59	0.58	0.38	0.39	0.10	0.06	0.02
11	0.00	0.15	0.24	0.92	0.55	0.58	0.52	0.38	0.41	0.09	0.06	0.02
12	0.00	0.15	0.23	0.87	0.58	0.58	0.57	0.38	0.39	0.09	0.05	0.02
13	0.00	0.15	0.24	0.82	0.58	0.58	0.56	0.39	0.40	0.08	0.04	0.02
14	0.00	0.15	0.24	0.82	0.58	0.58	0.56	0.39	0.37	0.08	0.04	0.02
15	0.00	0.16	0.24	0.75	0.58	0.60	0.53	0.38	0.34	0.07	0.04	0.02
16	0.00	0.17	0.31	0.73	1.1	0.64	0.52	0.37	0.37	0.07	0.03	0.03
17	0.00	0.17	0.61	0.73	1.5	0.58	0.52	0.44	0.38	0.07	0.02	0.03
18	0.00	0.18	0.86	0.72	1.7	0.57	0.52	2.8	0.36	0.05	0.02	0.03
19	0.24	0.19	18	0.67	16	0.55	0.52	0.91	0.37	0.02	0.01	0.03
20	0.03	0.33	40	0.65	13	0.70	0.52	0.47	0.38	0.02	0.01	0.02
21	0.00	0.65	115	0.65	1.3	28	0.51	0.45	0.36	0.02	0.02	0.01
22	0.34	0.66	222	0.65	0.70	2.1	0.50	0.44	0.36	0.02	0.02	0.01
23	0.42	0.65	18	0.65	0.65	1.1	0.50	0.45	0.35	0.02	0.02	0.01
24	0.42	0.65	5.1	0.62	0.62	13	0.48	0.44	0.34	0.02	0.02	0.02
25	0.49	0.58	2.9	0.60	0.58	2.0	0.48	0.45	0.35	0.02	0.02	0.02
26	0.52	0.64	8.3	0.60	36	1.5	0.45	0.45	0.32	0.02	0.01	0.02
27	0.50	0.69	2.4	0.63	4.9	0.87	0.38	0.45	0.31	0.05	0.02	0.02
28	0.47	0.68	1.8	0.60	1.5	0.79	0.42	0.43	0.26	0.04	0.02	0.02
29	0.46	0.69	34	0.57	---	0.70	0.42	0.44	0.20	0.05	0.03	0.02
30	0.45	0.65	9.5	0.72	---	0.65	0.42	0.43	0.15	0.05	0.05	0.02
31	0.45	---	2.7	4.3	---	0.62	---	0.44	---	0.06	0.01	---
Total	4.80	10.70	487.51	54.57	88.21	67.51	15.44	15.79	10.93	2.14	1.10	0.57
Mean	0.15	0.36	15.7	1.76	3.15	2.18	0.51	0.51	0.36	0.07	0.04	0.02
Max	0.52	0.69	222	19	36	28	0.68	2.8	0.44	0.13	0.07	0.03
Min	0.00	0.15	0.23	0.57	0.51	0.55	0.38	0.37	0.15	0.02	0.01	0.01
Ac-ft	9.5	21	967	108	175	134	31	31	22	4.2	2.2	1.1

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1994 - 2011, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.29	0.50	2.05	4.29	6.04	3.16	1.40	0.67	0.34	0.15	0.07	0.05
Max	3.42	3.35	15.7	25.0	35.9	23.8	5.63	3.28	1.50	0.82	0.41	0.41
(WY)	(2005)	(1997)	(2011)	(2005)	(1998)	(1995)	(1998)	(1998)	(1995)	(1998)	(1995)	(1998)
Min	0.00	0.01	0.17	0.36	0.38	0.33	0.21	0.05	0.00	0.00	0.00	0.00
(WY)	(2002)	(2010)	(2000)	(2003)	(2002)	(2002)	(2009)	(2009)	(2002)	(2002)	(2000)	(2001)

11045300 Fallbrook Creek near Fallbrook, CA—Continued**SUMMARY STATISTICS**

	Calendar Year 2010	Water Year 2011	Water Years 1994 - 2011	
Annual total	791.20	759.27		
Annual mean	2.17	2.08	1.56	
Highest annual mean			5.42	2005
Lowest annual mean			0.17	2002
Highest daily mean	222	Dec 22	256	Mar 5, 1995
Lowest daily mean	0.00	Aug 14	0.00	Sep 5, 1994
Annual seven-day minimum	0.00	Aug 19	0.00	Sep 5, 1994
Maximum peak flow			749	Dec 22
Maximum peak stage			8.67	Dec 22
Annual runoff (ac-ft)	1,570	1,510	1,130	
10 percent exceeds	1.2	1.3	1.7	
50 percent exceeds	0.33	0.42	0.39	
90 percent exceeds	0.00	0.02	0.00	

