

Water-Data Report 2011

**11089500 Fullerton Creek below Fullerton Dam, near Brea, CA**

San Gabriel River Basin

LOCATION.--Lat 33°53'45", long 117°53'07" referenced to North American Datum of 1927, in NW ¼ SW ¼ sec.24, T.3 S., R.10 W., Orange County, CA, Hydrologic Unit 18070106, on left bank of outlet channel of Fullerton Dam, and 1.6 mi southeast of Brea.

DRAINAGE AREA.--4.94 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--October 1941 to current year.

REVISED RECORDS.--WSP 1245: 1950 (instantaneous maximum discharge). WSP 1928: Drainage area. WDR CA-82-1: 1981.

GAGE.--Water-stage recorder. Elevation of gage is 250 ft above NGVD of 1929, from topographic map. V-notch sharp-crested weir used Oct. 25, 1946, to Feb. 2, 1956. Prior to Dec. 3, 1971, at datum 3.00 ft higher.

REMARKS.--Records good except for flows below 5 ft<sup>3</sup>/s, which are poor. Flow regulated by Fullerton Flood-Control Reservoir, capacity, 760 acre-ft (resurvey of 1970). Small tributary formerly entering below station diverted into reservoir since December 1954. See schematic diagram of San Gabriel River and Los Angeles River Basins available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 496 ft<sup>3</sup>/s, Feb. 6, 2010, gage height, 9.24 ft, present datum; no flow at times some years.

**11089500 Fullerton Creek below Fullerton Dam, near Brea, CA—Continued**

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

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	0.58	0.37	0.27	0.46	0.43	0.39	0.35	0.30	0.34	0.30	0.30	0.30
<b>2</b>	0.28	0.29	0.26	12	0.38	0.36	0.40	0.31	0.36	0.30	0.30	0.30
<b>3</b>	0.26	0.27	0.28	8.3	0.33	0.37	0.38	0.50	0.35	0.30	0.30	0.31
<b>4</b>	0.35	0.26	0.28	0.59	0.35	0.36	0.37	0.56	0.34	0.30	0.30	0.31
<b>5</b>	0.51	0.27	3.8	0.44	0.35	0.36	0.41	0.58	0.31	0.30	0.28	0.30
<b>6</b>	7.8	0.28	11	0.43	0.31	0.34	0.40	0.57	0.46	0.29	0.27	0.30
<b>7</b>	0.48	0.27	0.43	0.43	0.34	0.53	0.49	0.39	0.36	0.29	0.35	0.30
<b>8</b>	0.28	4.7	0.33	0.42	0.35	0.34	0.51	0.34	0.39	0.30	0.31	0.29
<b>9</b>	0.28	0.37	0.27	0.41	0.31	0.32	0.40	0.51	0.41	0.30	0.28	0.28
<b>10</b>	0.27	0.29	0.26	0.37	0.32	0.36	0.36	0.90	0.41	0.30	0.28	0.28
<b>11</b>	0.27	0.25	0.25	0.36	0.31	0.34	0.40	0.57	0.43	0.30	0.29	0.29
<b>12</b>	0.27	0.24	0.28	0.36	0.31	0.33	0.38	0.51	0.42	0.32	0.28	0.30
<b>13</b>	0.28	0.25	0.26	0.36	0.32	0.32	0.38	0.47	0.38	0.35	0.29	0.30
<b>14</b>	0.28	0.24	0.27	0.36	0.32	0.32	0.47	0.41	0.42	0.39	0.28	0.30
<b>15</b>	0.28	0.25	0.27	0.36	0.31	0.34	0.64	0.95	0.35	0.37	0.29	0.30
<b>16</b>	0.28	0.27	0.67	0.46	7.8	0.32	0.37	0.55	0.34	0.35	0.28	0.30
<b>17</b>	0.34	0.28	12	0.35	0.43	0.33	0.37	1.1	0.31	0.30	0.34	0.30
<b>18</b>	0.41	0.27	54	0.35	16	0.32	0.62	8.8	0.41	0.30	0.31	0.30
<b>19</b>	1.00	0.27	173	0.37	15	0.33	0.66	0.68	0.30	0.30	0.28	0.30
<b>20</b>	1.7	33	149	0.35	2.7	26	0.67	0.71	0.31	0.30	0.30	0.30
<b>21</b>	0.64	8.3	122	0.31	0.44	77	0.64	0.40	0.30	0.33	0.30	0.29
<b>22</b>	0.29	0.46	233	0.32	0.36	0.98	0.62	0.34	0.32	0.30	0.31	0.29
<b>23</b>	0.24	0.36	2.2	0.29	0.35	15	0.40	0.49	0.32	0.30	0.31	0.28
<b>24</b>	0.24	0.60	0.81	0.30	0.36	4.8	1.5	0.44	0.32	0.31	0.30	0.28
<b>25</b>	6.3	0.27	8.3	0.32	9.7	27	0.51	0.55	0.33	0.37	0.31	0.30
<b>26</b>	0.47	0.26	23	0.30	90	0.67	0.62	0.49	0.30	0.36	0.35	0.31
<b>27</b>	0.29	0.29	0.71	0.30	0.81	1.0	0.57	0.49	0.30	0.36	0.33	0.36
<b>28</b>	0.24	0.38	0.49	0.34	0.48	0.45	0.56	0.40	0.31	0.32	0.32	0.31
<b>29</b>	0.24	0.26	55	0.30	---	0.40	0.48	0.34	0.30	0.30	0.32	0.31
<b>30</b>	10	0.29	0.91	2.8	---	0.36	0.35	0.32	0.30	0.29	0.30	0.34
<b>31</b>	0.34	---	0.57	0.48	---	0.34	---	0.32	---	0.30	0.31	---
<b>Total</b>	35.49	54.16	854.17	33.59	149.47	160.68	15.28	24.29	10.50	9.80	9.37	9.03
<b>Mean</b>	1.14	1.81	27.6	1.08	5.34	5.18	0.51	0.78	0.35	0.32	0.30	0.30
<b>Max</b>	10	33	233	12	90	77	1.5	8.8	0.46	0.39	0.35	0.36
<b>Min</b>	0.24	0.24	0.25	0.29	0.31	0.32	0.35	0.30	0.30	0.29	0.27	0.28
<b>Ac-ft</b>	70	107	1,690	67	296	319	30	48	21	19	19	18

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1942 - 1954, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	.000	.030	.034	.99	.41	.75	.058	.000	.002	.001	.000	.000
<b>Max</b>	.000	.31	.19	6.62	3.34	4.60	.36	.003	.020	.016	.000	.000
(WY)	(1942)	(1945)	(1946)	(1952)	(1944)	(1943)	(1952)	(1945)	(1942)	(1942)	(1942)	(1942)
<b>Min</b>	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000	.000
(WY)	(1942)	(1942)	(1942)	(1942)	(1942)	(1942)	(1942)	(1942)	(1943)	(1943)	(1942)	(1942)

**11089500 Fullerton Creek below Fullerton Dam, near Brea, CA—Continued****SUMMARY STATISTICS**

Water Years 1942 - 1954		
<b>Annual mean</b>	.19	
<b>Highest annual mean</b>	.92	1952
<b>Lowest annual mean</b>	.000	1948
<b>Highest daily mean</b>	79	Jan 19, 1952
<b>Lowest daily mean</b>	.00	Oct 1, 1941
<b>Annual seven-day minimum</b>	.00	Oct 1, 1941
<b>Maximum peak flow</b>	298	Mar 16, 1943
<b>Maximum peak stage</b>	3.80	Mar 16, 1943
<b>Annual runoff (ac-ft)</b>	137	
<b>10 percent exceeds</b>	.00	
<b>50 percent exceeds</b>	.00	
<b>90 percent exceeds</b>	.00	

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1955 - 2011, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	0.82	1.26	2.62	4.58	5.98	3.27	1.15	0.56	0.39	0.33	0.37	0.46
<b>Max</b>	11.8	5.76	27.6	28.0	32.1	18.6	6.28	5.87	1.66	1.01	1.72	2.53
(WY)	(2005)	(1986)	(2011)	(1993)	(1998)	(1983)	(1958)	(1998)	(1995)	(1991)	(1977)	(1986)
<b>Min</b>	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)	(1955)	(1955)	(1955)	(1963)	(1964)	(1966)	(1955)	(1961)	(1955)	(1955)	(1955)	(1955)

**SUMMARY STATISTICS**

	Calendar Year 2010		Water Year 2011		Water Years 1955 - 2011	
<b>Annual total</b>	2,007.25		1,365.83			
<b>Annual mean</b>	5.50		3.74		1.80	
<b>Highest annual mean</b>					6.90	
<b>Lowest annual mean</b>					0.03	
<b>Highest daily mean</b>	233	Dec 22	233	Dec 22	242	Feb 19, 2005
<b>Lowest daily mean</b>	0.23	Jul 19	0.24	Oct 23	0.00	Oct 1, 1954
<b>Annual seven-day minimum</b>	0.25	Nov 11	0.25	Nov 11	0.00	Oct 1, 1954
<b>Maximum peak flow</b>			396	Dec 22	496	Feb 6, 2010
<b>Maximum peak stage</b>			8.44	Dec 22	9.24	Feb 6, 2010
<b>Instantaneous low flow</b>					0.02	Sep 19, 2003
<b>Annual runoff (ac-ft)</b>	3,980		2,710		1,300	
<b>10 percent exceeds</b>	2.7		1.0		1.0	
<b>50 percent exceeds</b>	0.49		0.34		0.36	
<b>90 percent exceeds</b>	0.27		0.28		0.00	

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