

11098000 Arroyo Seco near Pasadena, CA

Los Angeles River Basin

LOCATION.--Lat 34°13'20", long 118°10'36" referenced to North American Datum of 1927, in NW ¼ NE ¼ sec.31, T.2 N., R.12 W., Los Angeles County, CA, Hydrologic Unit 18070105, on right bank, 0.7 mi east of Angeles Crest Highway, 1.5 mi upstream from Millard Canyon, and 5.5 mi northwest of Pasadena.

DRAINAGE AREA.--16.0 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--December 1910 to January 1913 (fragmentary), April 1913 to November 1915, April 1916 to current year.

REVISED RECORDS.--WSP 1315-B: 1914 (instantaneous maximum discharge), 1918 (instantaneous maximum discharge), 1920-21 (instantaneous maximum discharge). WSP 1928: Drainage area.

GAGE.--Water-stage recorder. Broad-crested weir since November 1938. Datum of gage is 1,397.88 ft above NGVD of 1929. Prior to Oct. 1, 1916, nonrecording gage at different datum. Oct. 1, 1916, to Oct. 19, 1945, water-stage recorder at datum 4.00 ft lower.

REMARKS.--Records poor. No regulation or diversion upstream from station. 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, 8,620 ft³/s, Mar. 2, 1938, gage height, 9.42 ft, present datum, on basis of slope-area measurement of peak flow; no flow at times in some years.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 150 ft³/s and (or) maximum (*), from rating curve extended above 1,170 ft³/s, on basis of slope-area measurement of peak flow:

Date	Time	Discharge (ft ³ /s)	Gage height (ft)
Mar 17	1205	*227	*3.07
Apr 13	1545	192	2.95

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2011 TO SEPTEMBER 2012
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	3.4	3.6	3.4	3.2	3.1	3.7	10	5.5	2.3	1.6	0.98	0.77
2	3.3	3.7	3.5	3.1	3.0	3.5	7.0	5.3	2.1	1.6	0.97	0.83
3	3.3	3.9	3.5	3.1	3.0	3.3	6.6	5.1	2.4	1.6	1.0	0.82
4	3.5	4.3	3.4	3.1	2.9	3.1	6.2	5.0	2.4	1.6	0.99	0.92
5	16	3.6	3.5	3.1	2.8	3.0	6.2	4.4	2.3	1.4	0.96	1.1
6	9.2	4.6	3.6	2.8	2.8	3.1	5.8	3.7	2.3	1.4	0.92	1.1
7	5.3	4.3	3.6	2.6	2.7	3.1	5.8	3.6	2.2	1.4	0.88	1.1
8	4.5	3.5	3.6	2.6	2.6	3.0	5.5	3.6	2.2	1.3	0.90	1.1
9	3.6	3.3	3.6	2.6	2.6	2.9	5.3	3.4	2.1	1.3	0.90	1.0
10	3.5	3.2	3.6	2.6	2.7	2.8	5.2	3.5	2.1	1.2	0.88	0.90
11	3.4	3.1	3.7	2.7	2.9	2.9	11	3.4	2.0	1.2	0.90	0.97
12	3.2	3.6	4.5	2.7	3.2	2.9	8.6	3.2	1.8	1.2	0.90	0.96
13	3.1	3.5	4.6	2.8	3.3	2.9	53	3.0	1.6	1.3	0.84	0.90
14	3.1	3.3	3.9	2.8	3.1	2.9	31	3.0	1.7	1.1	0.76	0.81
15	3.4	3.3	3.8	2.9	3.1	2.9	17	2.9	1.7	1.1	0.86	0.81
16	3.9	3.3	3.6	2.9	3.0	3.0	13	3.0	1.9	1.1	0.84	0.81
17	3.9	3.2	3.4	3.0	2.8	65	10	3.1	1.8	1.2	0.83	0.65
18	3.9	3.3	3.4	3.0	2.6	23	8.5	3.1	1.8	1.1	0.81	0.59
19	3.9	3.3	3.4	3.0	2.6	11	7.1	3.1	1.9	1.1	0.78	0.51
20	4.0	6.8	3.4	2.9	2.7	8.1	6.3	2.8	1.9	1.1	0.76	0.46
21	4.1	6.6	3.4	5.6	2.6	6.7	5.9	2.7	2.0	1.1	0.77	0.43
22	3.9	4.2	3.3	4.3	2.5	5.9	5.7	2.7	2.0	1.0	0.77	0.46
23	3.6	3.8	3.2	6.4	2.4	5.8	6.0	2.8	2.0	1.1	0.78	0.36
24	3.7	3.7	3.1	5.6	2.4	5.6	6.7	2.8	1.9	1.0	0.77	0.76
25	4.0	3.7	3.1	4.4	2.4	30	7.3	3.2	1.8	1.00	0.77	1.0
26	4.2	3.5	3.2	3.9	2.4	35	11	3.0	1.8	0.96	0.68	1.2
27	3.9	3.5	3.1	3.7	3.9	18	6.6	2.8	1.7	0.97	0.53	1.2
28	3.8	3.6	3.1	3.3	4.9	12	5.4	2.8	1.7	0.96	0.59	1.2
29	3.6	3.5	3.0	3.1	3.9	9.9	4.9	2.8	1.6	0.98	0.62	1.4
30	3.6	3.3	3.2	3.1	---	8.2	5.3	2.5	1.6	1.00	0.71	1.1
31	3.5	---	3.2	3.1	---	8.1	---	2.5	---	0.98	0.78	---
Total	133.3	114.1	107.9	104.0	84.9	301.3	293.9	104.3	58.6	36.95	25.43	26.22
Mean	4.30	3.80	3.48	3.35	2.93	9.72	9.80	3.36	1.95	1.19	0.82	0.87
Max	16	6.8	4.6	6.4	4.9	65	53	5.5	2.4	1.6	1.0	1.4
Min	3.1	3.1	3.0	2.6	2.4	2.8	4.9	2.5	1.6	0.96	0.53	0.36
Ac-ft	264	226	214	206	168	598	583	207	116	73	50	52

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1911 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	1.36	3.60	8.92	20.5	33.0	26.8	13.9	7.00	3.47	1.69	1.02	1.03
Max	19.1	97.4	132	268	344	235	91.5	77.1	22.9	10.7	7.70	8.26
(WY)	(2005)	(1966)	(1922)	(2005)	(1914)	(1938)	(1941)	(1998)	(1998)	(1969)	(1983)	(1976)
Min	0.00	0.06	0.12	0.58	0.93	1.02	0.63	0.45	0.28	0.04	0.00	0.00
(WY)	(1927)	(1934)	(1991)	(1991)	(1924)	(2002)	(2002)	(2002)	(2002)	(1960)	(1925)	(1925)

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SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1911 - 2012	
Annual total	5,628.5		1,390.90			
Annual mean	15.4		3.80		10.1	
Highest annual mean					57.8	1969
Lowest annual mean					0.65	2002
Highest daily mean	172	Mar 20	65	Mar 17	3,690	Feb 20, 1914
Lowest daily mean	3.0	Dec 29	0.36	Sep 23	0.00	Aug 18, 1920
Annual seven-day minimum	3.1	Dec 23	0.49	Sep 17	0.00	Aug 18, 1920
Maximum peak flow			227	Mar 17	8,620	Mar 2, 1938
Maximum peak stage			3.07	Mar 17	9.42	Mar 2, 1938
Annual runoff (ac-ft)	11,160		2,760		7,310	
10 percent exceeds	36		6.1		17	
50 percent exceeds	7.8		3.0		1.9	
90 percent exceeds	3.3		0.90		0.20	

