Water-Data Report 2012

11092450 Los Angeles River at Sepulveda Dam, CA

Los Angeles River Basin

LOCATION.--Lat 34°09′42″, long 118°27′57″ referenced to North American Datum of 1927, Los Angeles County, CA, Hydrologic Unit 18070105, in Mission de San Fernando Grant, on right bank of outlet channel, 0.6 mi downstream from Sepulveda Dam, 200 ft upstream from Sepulveda Boulevard in city of Los Angeles, and 1.8 mi southwest of Van Nuys.

DRAINAGE AREA.--158 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1929 to February 1938, May 1938 to September 1979, October 2002 to current year. See WSP 1315-B and 1735 for history of records prior to September 1950.

GAGE.--Water-stage recorder and concrete-lined flood-control channel. Datum of gage is 652.7 ft above NGVD of 1929. See WSP 1735 for history of changes prior to Aug. 29, 1953.

REMARKS.--Records good except for estimated daily discharges, which are poor. Flow regulated since December 1941 by Sepulveda Flood-Control Reservoir, capacity, 17,400 acre-ft. Some diversion above station. At times, the city of Los Angeles discharges imported Owens River water into the Los Angeles River from upstream distributing reservoirs. Since 1998, most of the base flow at this station represents releases of treated effluent from the city of Los Angeles Donald C. Tillman Water Reclamation Plant, located upstream of Sepulveda Dam. Such releases are discharged to the river approximately 300 ft downstream of Sepulveda Dam. 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, 19,600 ft^3/s, Mar. 20, 2011, gage height, 14.79 ft; no flow on Sept. 19, 20, 1930.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Mar. 2, 1938, 12,000 ft^3/s, estimated.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	74	59	59	58	62	57	53	64	58	65	57	62
2	74	54	60	56	63	53	47	67	56	66	61	65
3	66	62	60	57	62	54	48	65	57	65	62	65
4	66	143	61	56	59	54	51	65	57	66	67	64
5	641	76	64	57	57	54	51	68	57	68	68	64
6	81	443	66	56	64	55	49	71	55	69	62	63
7	67	78	61	52	61	50	97	58	47	71	62	63
8	64	69	65	50	62	51	111	44	55	66	63	63
9	67	71	64	54	59	53	111	45	59	64	58	64
10	66	69	63	53	61	52	114	67	59	62	63	62
11	69	67	59	56	67	54	e427	68	59	58	65	65
12	68	264	1,060	61	61	54	104	71	57	59	65	63
13	60	75	216	60	123	54	1,960	70	56	66	59	64
14	60	71	66	62	65	58	161	69	56	66	63	64
15	60	67	83	62	75	58	122	57	58	64	63	62
16	67	61	63	64	59	60	113	55	60	61	64	63
17	61	66	75	68	60	1,090	e90	55	62	59	68	63
18	61	63	67	70	61	167	89	57	62	58	66	62
19	61	68	63	70	60	53	92	59	62	61	69	61
20	65	1,120	61	67	62	50	75	56	61	72	67	64
21	66	91	61	592	63	48	66	56	61	69	62	63
22	66	68	59	71	60	48	67	61	62	68	66	65
23	66	65	62	876	66	46	70	58	63	68	69	62
24	66	63	64	92	67	48	64	57	64	64	69	61
25	68	60	63	71	59	e162	61	58	62	64	68	59
26	59	60	62	69	58	438	163	59	66	64	70	64
27	60	59	63	65	58	55	71	58	60	64	67	70
28	60	63	59	60	57	49	65	54	61	66	63	68
29	62	59	58	59	57	49	68	55	62	66	62	65
30	60	61	58	63	---	44	66	58	66	57	64	65
31	61	---	56	61	---	48	---	60	---	59	66	---
Total	2,592	3,695	3,101	3,268	1,848	3,266	4,726	1,865	1,780	1,995	1,998	1,908
Mean	83.6	123	100	105	63.7	105	158	60.2	59.3	64.4	64.5	63.6
Max	641	1,120	1,060	876	123	1,090	1,960	71	66	72	70	70
Min	59	54	56	50	57	44	47	44	47	57	57	59
Ac-ft	5,140	7,330	6,150	6,480	3,670	6,480	9,370	3,700	3,530	3,960	3,960	3,780

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2012, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	32.5	61.9	81.5	137	154	96.8	47.9	28.1	23.1	24.3	26.1	25.8
Max	295	491	492	890	1,040	739	202	163	88.0	92.2	84.9	109
(WY)	(2005)	(1966)	(2005)	(2005)	(2005)	(1978)	(1958)	(2003)	(2005)	(2005)	(2003)	(2007)
Min	1.44	1.67	3.76	4.65	4.19	4.27	3.94	3.17	2.87	2.22	2.23	1.93
(WY)	(1978)	(1978)	(1954)	(1976)	(1951)	(1951)	(1977)	(1951)	(1951)	(1951)	(1951)	(1951)

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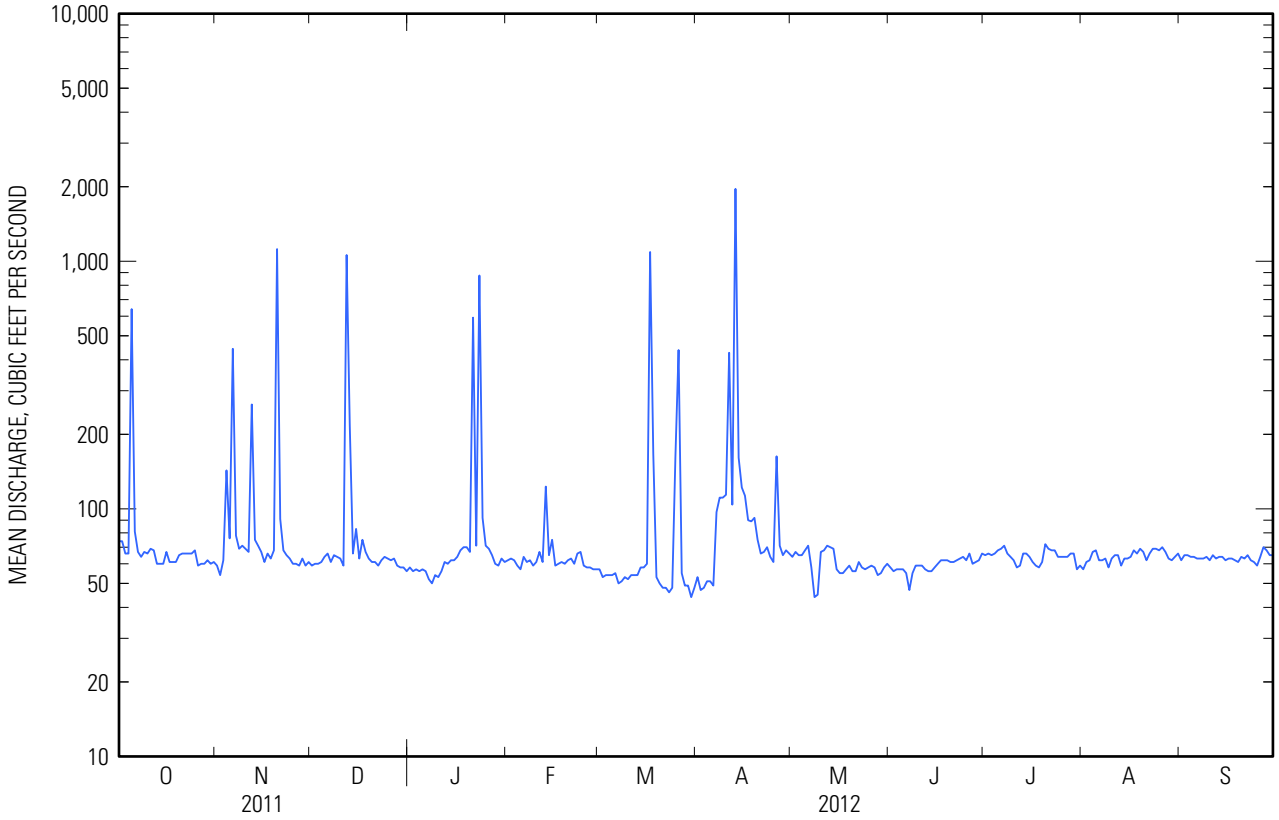
SUMMARY STATISTICS

	Calendar Year 2011		Water Year 2012		Water Years 1943 - 2012	
Annual total	45,835		32,042			
Annual mean	126		87.5		61.1	
Highest annual mean					292	2005
Lowest annual mean					7.09	1950
Highest daily mean	8,970	Mar 20	1,960	Apr 13	9,750	Mar 4, 1978
Lowest daily mean	32	Jul 21	44	Mar 30	0.46	Nov 10, 1977
Annual seven-day minimum	50	May 2	48	Mar 28	0.84	Nov 25, 1977
Maximum peak flow			13,300	Apr 13	19,600	Mar 20, 2011
Maximum peak stage			11.28	Apr 13	14.79	Mar 20, 2011
Annual runoff (ac-ft)	90,910		63,560		44,280	
10 percent exceeds	90		75		83	
50 percent exceeds	64		63		10	
90 percent exceeds	56		55		4.6