Water-Data Report 2009

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 fair. 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 and Los Angeles River Basins available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 14,700 ft^3/s, Mar. 4, 1978, Dec. 28, 2004; maximum gage height, 12.09 ft, Dec. 28, 2004; 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 2008 TO SEPTEMBER 2009
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	62	172	74	79	77	77	70	67	70	61	68	67
2	64	79	74	79	78	84	74	68	67	66	70	66
3	65	75	74	80	77	78	72	73	55	72	69	64
4	74	161	73	76	76	533	70	71	67	70	68	67
5	66	70	70	73	1,420	96	69	71	84	69	66	70
6	63	66	66	78	2,110	76	67	70	78	70	64	71
7	63	71	68	77	1,030	73	64	60	76	71	64	72
8	62	70	70	79	227	74	68	63	77	69	66	68
9	63	70	67	82	606	75	66	64	80	65	68	68
10	67	65	61	76	172	74	66	65	71	63	68	66
11	64	68	63	77	98	75	69	70	72	62	67	65
12	60	71	65	67	85	79	71	67	85	61	66	64
13	62	61	62	63	320	81	76	66	84	62	64	65
14	62	61	60	73	94	87	58	65	87	62	65	64
15	63	66	1,870	71	83	91	45	63	86	61	66	65
16	63	78	158	71	2,600	92	43	65	77	62	66	66
17	64	59	228	74	495	94	43	66	73	64	67	65
18	65	65	147	76	106	91	64	66	71	64	66	63
19	67	60	96	73	85	93	67	64	77	64	64	60
20	69	75	91	77	84	89	63	62	81	63	64	60
21	70	83	89	73	75	80	62	62	85	63	65	61
22	65	73	364	93	74	100	54	63	87	63	67	57
23	64	78	103	224	75	82	59	66	87	64	67	52
24	66	82	92	272	71	72	62	66	87	64	68	54
25	64	81	295	80	73	74	62	68	87	65	66	56
26	64	1,450	129	75	75	74	63	67	85	64	65	57
27	67	134	91	82	75	70	69	67	81	64	64	58
28	63	87	87	80	80	71	68	66	79	63	68	60
29	53	81	85	81	---	74	69	65	78	63	70	61
30	55	77	77	78	---	73	67	66	71	64	68	61
31	59	---	79	76	---	69	---	68	---	68	70	---
Total	1,978	3,789	5,028	2,715	10,521	2,951	1,920	2,050	2,345	2,006	2,064	1,893
Mean	63.8	126	162	87.6	376	95.2	64.0	66.1	78.2	64.7	66.6	63.1
Max	74	1,450	1,870	272	2,600	533	76	73	87	72	70	72
Min	53	59	60	63	71	69	43	60	55	61	64	52
Ac-ft	3,920	7,520	9,970	5,390	20,870	5,850	3,810	4,070	4,650	3,980	4,090	3,750

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1943 - 2009, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	27.8	60.2	72.9	132	152	87.0	43.2	25.6	20.6	21.9	23.8	23.5
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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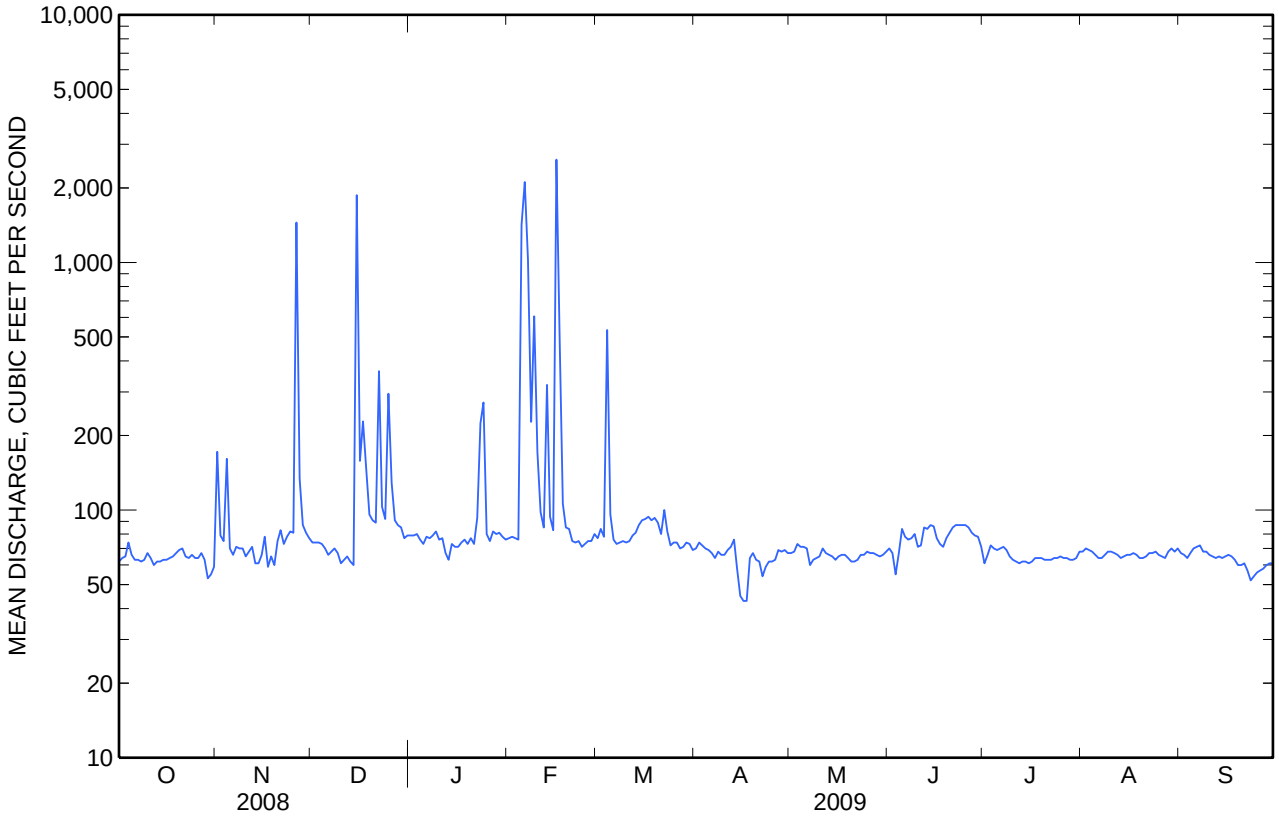
SUMMARY STATISTICS

	Calendar Year 2008		Water Year 2009		Water Years 1943 - 2009	
Annual total	48,283		39,260			
Annual mean	132		108		57.1	
Highest annual mean					292	2005
Lowest annual mean					7.09	1950
Highest daily mean	4,070	Jan 27	2,600	Feb 16	9,750	Mar 4, 1978
Lowest daily mean	48	Jul 10	43	Apr 16	0.46	Nov 10, 1977
Annual seven-day minimum	57	Jun 17	55	Apr 14	0.84	Nov 25, 1977
Maximum peak flow			10,700	Feb 16	14,700	Mar 4, 1978
Maximum peak stage			9.62	Feb 16	12.09	Dec 28, 2004
Annual runoff (ac-ft)	95,770		77,870		41,340	
10 percent exceeds	104		91		83	
50 percent exceeds	75		69		9.7	
90 percent exceeds	62		62		4.4