10260500 DEEP CREEK NEAR HESPERIA, CA

Mojave River Basin

LOCATION.--Lat 34°20′28″, long 117°13′39″ referenced to North American Datum of 1927, in NE ¼ SE ¼ sec.18, T.3 N., R.3 W., San Bernardino County, Hydrologic Unit 18090208, on right bank, 0.5 mi upstream from confluence with West Fork Mojave River at Mojave River Forks Dam, 7 mi southeast of Hesperia, and 11 mi downstream from Lake Arrowhead.

DRAINAGE AREA.--134 mi^2.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1904 to September 1922, October 1929 to current year. Prior to January 1930, monthly discharges only, published in WSP 1314.

REVISED RECORDS.--WSP 1314: 1931(M). WSP 1927: Drainage area.

GAGE.--Water-stage recorder. Broad-crested weir since December 1938. Elevation of gage is 3,050 ft above NGVD of 1929, from topographic map. See WSP 1314 for history of changes prior to Dec. 10, 1938.

REMARKS.--Records good above 1 ft^3/s and fair below except for estimated daily discharges, which are poor. Slight regulation by Lake Arrowhead, capacity, 48,000 acre-ft, principally used for recreation. Sewage effluent from Lake Arrowhead area is released above gage at times. See schematic diagram of Mojave River Basin.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 46,600 ft^3/s, Mar. 2, 1938, gage height unknown, on basis of slope-area measurement of peak flow, maximum gage height, 33.30 ft, Jan. 11, 2005 (backwater from Mojave River Forks Reservoir); no flow July 17, 18, 1961.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 400 ft^3/s and (or) maximum (*), from rating curve extended above 3,330 ft3/s, on basis of slope-area measurement of peak flow:

[e, estimated]

Date	Time	Discharge (ft^3/s)	Gage height (ft)
Oct 20	1100	*18,000	11.04
Oct 27	1000	3,310	5.20
Dec 29	0430	13,700	9.76
Jan 11	Unk.	*e18,000	*33.30
Feb 12	Unk.	e4,500	Unk
Feb 21	1715	15,800	10.38
Mar 22	Unk.	e1,000	Unk
Apr 28	Unk.	e700	Unk

Note: Peak discharge on Jan. 11 was estimated from slope-conveyance computation and hydrographic comparisons. The maximum gage height on this date was affected by extreme backwater from Mojave River Forks Reservoir.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.72	54	41	332	e228	e440	e244	e175	e62	25	14	8.3
2	0.66	44	36	193	e226	e400	e243	e168	e61	23	14	8.2
3	0.64	39	34	283	e220	e390	e241	e162	e60	22	13	8.0
4	0.66	36	32	233	e215	e380	e240	e156	e58	22	16	7.7
5	0.59	33	31	155	e200	e370	e239	e165	e57	21	14	7.6
6	0.56	29	29	132	e210	e355	e238	e153	e56	21	19	7.7
7	0.64	28	28	294	e180	e340	e237	e150	e55	21	20	7.8
8	1.4	27	27	7,010	e175	e330	e234	e147	e54	21	19	7.9
9	2.7	29	27	e7,400	e168	e320	e229	e144	e52	19	17	7.9
10	3.0	31	27	e6,730	e170	e310	e225	e141	e51	20	16	7.9
11	3.4	28	27	e9,460	e345	e300	e221	e138	e50	19	15	8.0
12	3.8	26	27	e2,580	e800	e295	e216	e131	e49	19	14	8.1
13	3.9	24	27	e1,670	e500	e290	e210	e126	e48	18	14	8.1
14	3.9	23	27	e1,120	e390	e287	e205	e121	e46	17	13	8.2
15	3.8	21	27	e800	e300	e285	e198	e118	e45	17	13	8.2
16	4.0	21	26	e625	e260	e283	e193	e116	e44	17	13	8.2
17	4.6	20	25	e470	e243	e281	e187	e115	e43	16	12	8.2
18	5.0	20	25	e400	e400	e285	e181	e113	e42	15	12	e8.0
19	5.7	19	24	e380	e1,000	e289	e175	e111	e40	14	11	e7.9
20	6,570	19	24	e350	e3,000	e275	e170	e110	e39	13	11	e20
21	1,310	19	23	e325	e8,200	e265	e167	e106	e38	14	11	e13
22	152	22	23	e310	e6,000	e325	e165	e102	e36	14	11	e10
23	64	23	23	e298	e3,000	e420	e163	e97	e35	13	10	e9.9
24	41	24	23	e289	e1,800	e380	e162	e93	e34	15	10	e9.6
25	30	30	22	e275	e1,200	e340	e161	e89	e33	18	9.9	e9.5
26	23	37	22	e290	e700	e300	e160	e85	e32	18	9.8	e9.3
27	1,250	48	22	e260	e550	e270	e165	e81	e31	16	9.7	e9.3
28	298	120	1,210	e300	e484	e262	e300	e76	e29	18	9.1	e9.3
29	116	72	6,230	e250	---	e255	e240	e72	e27	15	8.7	e9.2
30	78	50	1,340	e235	---	e249	e200	e68	26	14	8.6	e9.3
31	64	---	676	e230	---	e246	---	e64	---	14	8.5	---
Total	10,046	1,016	10,185	43,679	31,164	9,817	6,209	3,693	1,333	549	396.3	270.3
Mean	324	33.9	329	1,409	1,113	317	207	119	44.4	17.7	12.8	9.01
Max	6,570	120	6,230	9,460	8,200	440	300	175	62	25	20	20
Min	0.56	19	22	132	168	246	160	64	26	13	8.5	7.6
Ac-ft	19,930	2,020	20,200	86,640	61,810	19,470	12,320	7,330	2,640	1,090	786	536

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1905 - 2005, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	8.48	19.1	57.1	141	216	211	139	63.4	17.3	5.59	3.22	3.52
Max	324	606	843	2,062	2,028	1,539	747	456	80.4	25.9	29.2	54.3
(WY)	(2005)	(1966)	(1922)	(1993)	(1993)	(1978)	(1958)	(1998)	(1998)	(1969)	(1983)	(1976)
Min	0.23	1.14	2.53	4.56	6.07	4.87	3.20	2.37	0.83	0.14	0.13	0.10
(WY)	(1934)	(1957)	(1905)	(1951)	(1951)	(1956)	(1951)	(1934)	(2002)	(1961)	(1933)	(1933)

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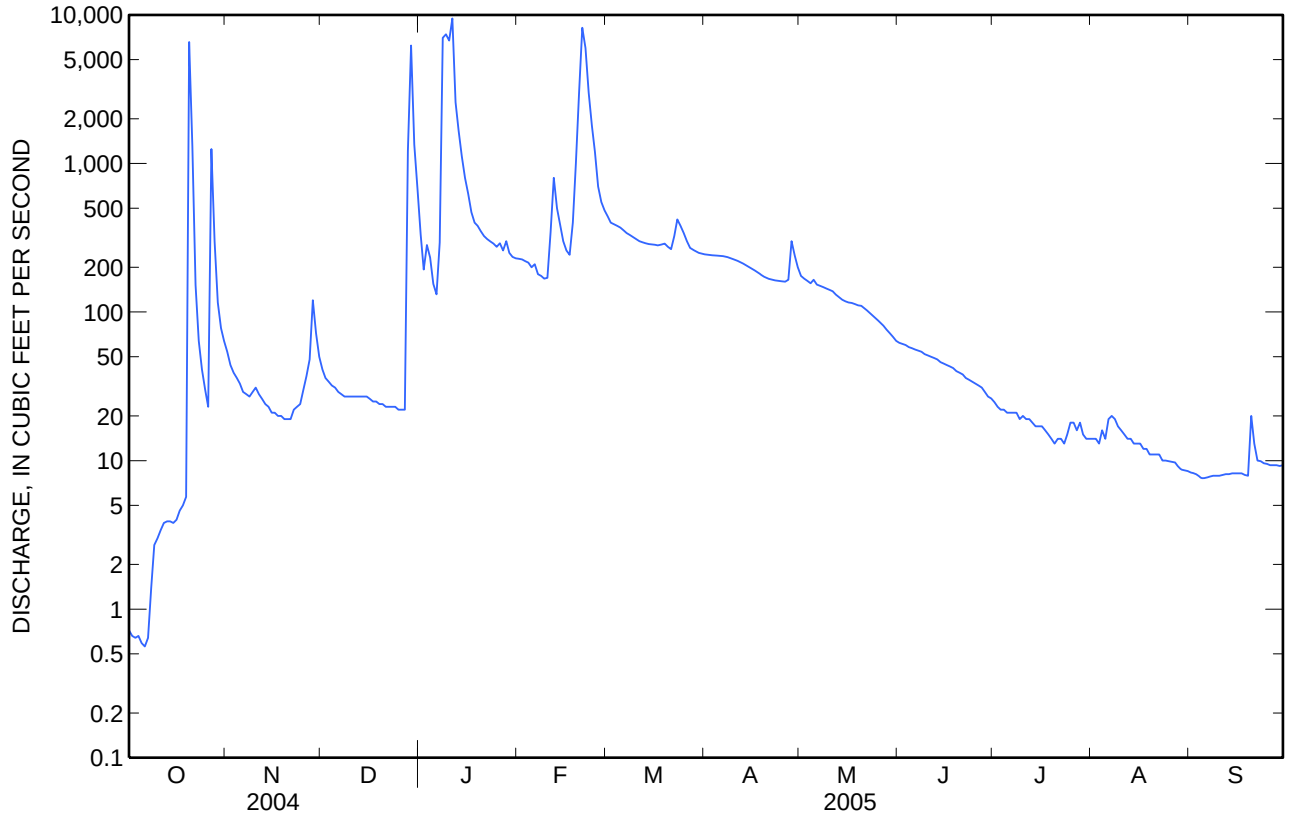
SUMMARY STATISTICS

	Calendar Year 2004		Water Year 2005		Water Years 1905 – 2005	
Annual total	26,022.52		118,357.27			
Annual mean	71.1		324		73.0	
Highest annual mean					411	1993
Lowest annual mean					3.06	1951
Highest daily mean	6,570	Oct 20	e9,460	Jan 11	14,700	Jan 25, 1969
Lowest daily mean	0.07	Jul 25	0.56	Oct 6	0.00	Jul 17, 1961
Annual seven-day minimum	0.08	Jul 22	0.64	Oct 1	0.07	Jul 12, 1961
Maximum peak flow			e18,000	Oct 20	46,600	Mar 2, 1938
Maximum peak stage			a33.30	Jan 11	a33.30	Jan 11, 2005
Annual runoff (ac-ft)	51,620		234,800		52,910	
10 percent exceeds	53		384		139	
50 percent exceeds	4.9		46		9.7	
90 percent exceeds	0.22		8.2		0.90	

e Estimated.
a Backwater from Mojave River Forks Reservoir.