10254050 Salt Creek near Mecca, CA

Salton Sea Basin

LOCATION.--Lat 33°26′49″, long 115°50′33″ referenced to North American Datum of 1927, in SE ¼ SW ¼ sec.28, T.8 S., R.11 E., Riverside County, CA, Hydrologic Unit 18100200, on left bank, upstream side of Southern Pacific railroad bridge, 0.3 mi upstream from mouth, and 16 mi southeast of Mecca.

DRAINAGE AREA.--269 mi^2.

SURFACE-WATER RECORDS

PERIOD OF RECORD.--January 1961 to current year (since October 1990, low-flow records only).

GAGE.--Water-stage recorder. Elevation of gage is 230 ft below NGVD of 1929, from topographic map. Prior to Dec. 21, 1984, at same site, at datum 2.50 ft lower.

REMARKS.--Records fair except for flows below 1 ft^3/s, which are poor. No regulation or diversion upstream from station. Flows affected by ground water pumping about 1.0 mi upstream of the station. No discharge records computed above 20 ft^3/s since October 1990. See schematic diagram of Salton Sea Basin available from the California Water Science Center.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge (January 1961 to September 1990), 9,900 ft^3/s, Sept. 24, 1976, gage height, 16.8 ft, present datum, from floodmarks, from rating curve extended above 20 ft^3/s, on basis of contracted-opening measurement of peak flow, maximum gage height, 19.4 ft, present datum, Mar. 2, 1983 (backwater from Salton Sea and channel vegetation); no flow for many days most years.

10254050 Salt Creek near Mecca, CA—Continued

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.00	1.3	2.0	2.1	0.99	0.06	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	1.3	2.0	1.9	0.94	0.04	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	1.4	2.0	2.1	1.0	0.02	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	1.4	2.0	2.1	1.2	0.01	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	1.4	1.8	2.1	1.2	0.00	0.00	0.00	0.00	0.00
6	0.00	0.00	0.00	1.3	1.8	2.1	1.1	0.00	0.00	0.00	0.00	0.00
7	0.00	0.00	---	1.2	2.1	---	0.97	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	---	1.2	2.3	---	0.91	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	1.3	1.1	2.0	---	0.91	0.00	0.00	0.00	0.00	0.00
10	0.00	0.00	0.89	1.1	2.6	7.6	0.94	0.00	0.00	0.00	0.00	0.00
11	0.00	0.00	0.74	1.2	3.7	4.7	0.96	0.00	0.00	0.00	0.00	0.00
12	0.00	0.00	0.77	1.2	3.0	4.1	0.90	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.84	1.1	2.7	3.6	0.83	0.00	0.00	0.00	0.00	0.00
14	0.00	0.00	0.94	1.1	2.4	3.3	0.80	0.00	0.00	0.00	0.00	0.00
15	0.00	0.00	0.87	1.0	2.0	2.7	0.78	0.00	0.00	0.00	0.00	0.00
16	0.00	0.00	0.85	0.87	1.9	2.3	0.77	0.00	0.00	0.00	0.00	0.00
17	0.00	0.00	0.92	0.85	1.8	2.4	0.76	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.97	---	2.0	2.7	0.71	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	1.0	---	2.7	2.8	0.58	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	1.0	---	2.5	2.0	0.48	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.84	---	2.3	1.5	0.39	0.00	0.00	0.00	0.00	0.00
22	0.00	0.00	0.98	---	2.0	1.4	0.29	0.00	0.00	0.00	0.00	0.00
23	0.00	0.00	1.1	---	1.8	1.6	0.23	0.00	0.00	0.00	0.00	0.00
24	0.00	0.00	0.99	6.7	1.6	1.5	0.19	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	0.85	4.3	2.1	1.2	0.17	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	1.00	3.6	2.4	1.1	0.16	0.00	0.00	0.00	0.00	0.00
27	0.00	0.00	1.1	3.5	2.1	1.1	0.16	0.00	0.00	0.00	0.00	0.00
28	0.00	0.00	1.2	3.7	2.2	0.97	0.14	0.00	0.00	0.00	0.00	0.00
29	0.00	0.00	1.2	2.8	---	0.91	0.09	0.00	0.00	0.00	0.00	0.00
30	0.00	0.00	1.3	2.2	---	---	0.07	0.00	0.00	0.00	0.00	0.00
31	0.00	---	1.3	2.1	---	---	---	0.00	---	0.00	0.00	---
Total	0.00	0.00	---	---	61.8	---	19.62	0.13	0.00	0.00	0.00	0.00
Mean	0.00	0.00	---	---	2.21	---	0.65	0.00	0.00	0.00	0.00	0.00
Max	0.00	0.00	---	---	3.7	---	1.2	0.06	0.00	0.00	0.00	0.00
Min	0.00	0.00	---	---	1.6	---	0.07	0.00	0.00	0.00	0.00	0.00
Ac-ft	0.00	0.00	---	---	123	---	39	0.3	0.00	0.00	0.00	0.00

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 1990, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.61	7.45	8.05	9.86	11.6	13.5	5.56	3.86	2.85	3.40	5.05	7.02
Max	12.6	22.1	14.8	18.8	45.5	137	11.9	12.7	7.50	21.0	55.6	76.5
(WY)	(1964)	(1981)	(1966)	(1977)	(1980)	(1983)	(1980)	(1980)	(1975)	(1986)	(1983)	(1976)
Min	1.55	1.05	1.59	4.13	4.26	3.79	2.37	1.49	.86	.41	.70	.59
(WY)	(1990)	(1979)	(1979)	(1990)	(1990)	(1990)	(1986)	(1986)	(1989)	(1989)	(1989)	(1978)

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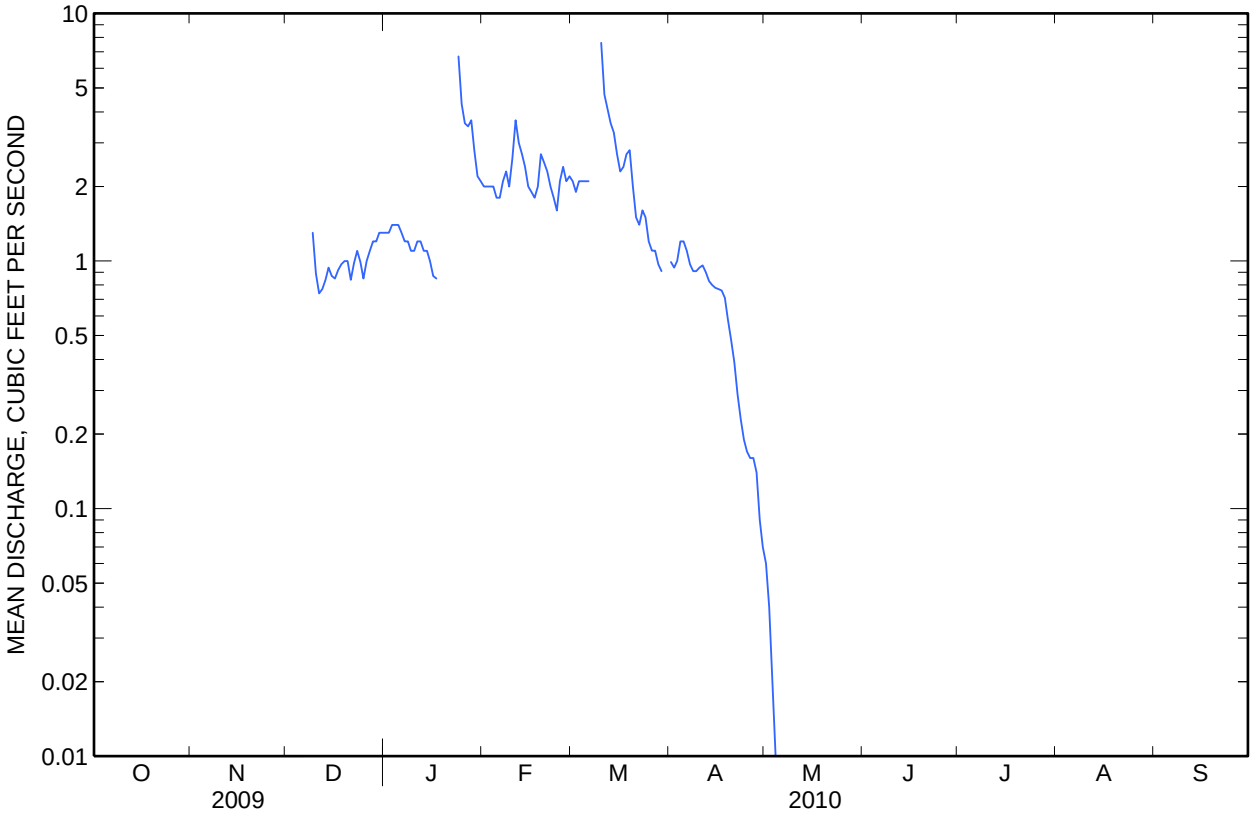
SUMMARY STATISTICS

	Water Years 1962 - 1990	
Annual mean	6.97	
Highest annual mean	23.7	
Lowest annual mean	2.57	1989
Highest daily mean	2,830	Mar 2, 1983
Lowest daily mean	.06	Nov 1, 1978
Annual seven-day minimum	.07	Oct 30, 1978
Instantaneous peak flow	9,900	Sep 24, 1976
Instantaneous peak stage	16.80	Sep 24, 1976
Annual runoff (ac-ft)	5,050	
10 percent exceeds	10	
50 percent exceeds	4.6	
90 percent exceeds	1.3