

SANTÉE RIVER BASIN

02146700 MCMULLEN CREEK AT SHARON VIEW ROAD NEAR CHARLOTTE, NC

LOCATION.--Lat 35°08'27", long 80°49'13", Mecklenburg County, Hydrologic Unit 03050103, on left bank downstream of culvert wingwall at Sharon View Road (Secondary Road 3673), 3.3 mi south of Queens College, Charlotte, and 6.9 mi upstream from mouth.

DRAINAGE AREA.--6.95 mi².

PERIOD OF RECORD.--April 1962 to current year.

REVISED RECORDS.--WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 592.91 ft above sea level (levels by city of Charlotte). Prior to Oct. 13, 1970, at site 73 ft upstream at same datum. Oct. 13, 1970, to Dec. 30, 1971, at site 154 ft downstream at 590.91 ft. Radio telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for the current water year also occurred Aug. 23-25. Maximum discharge for period of record from rating curve extended above 2,650 ft³/s on basis of computation of peak flow through culvert. No flow occurred periodically from 1962 to 1973.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood of Jan. 6, 1962, reached a stage of 7.5 ft, former site and datum, from floodmarks; discharge, 1,040 ft³/s.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	.97	.54	.81	.81	1.3	5.5	1.2	34	.62	.39	1.9
2	1.3	.93	.67	.81	.78	1.3	2.7	1.1	2.9	6.2	.38	.57
3	1.2	.94	.62	.81	.71	8.4	4.5	1.0	1.2	2.3	.36	41
4	1.2	e.93	.59	.76	.81	53	2.5	1.0	.92	22	.40	50
5	1.3	e1.3	1.5	.77	.90	6.1	2.1	.90	.93	6.3	.37	1.5
6	1.3	e.50	.60	.71	.74	2.4	2.0	.88	.74	.97	.36	.68
7	1.3	.56	.56	.78	.76	1.9	2.0	.78	.73	.66	.39	.41
8	1.4	.60	.65	6.1	.78	1.6	1.9	.86	1.8	1.5	1.1	.41
9	.84	3.1	.55	1.2	.72	1.5	1.9	.93	1.2	1.3	.55	6.0
10	1.1	3.3	.56	.62	2.1	1.4	1.9	.87	.68	.78	.42	.93
11	1.1	1.6	.55	.61	.89	1.3	1.8	1.1	.56	.59	.71	.58
12	.75	.61	.45	12	5.0	9.4	1.8	.97	.58	.56	.47	.42
13	.95	.47	.66	2.7	4.5	4.8	10	.86	49	1.4	13	.37
14	.96	8.3	1.8	1.1	6.0	1.7	2.1	.72	5.6	.57	1.6	.31
15	1.0	.91	.80	1.0	1.4	43	2.0	.74	1.0	.46	.49	.33
16	1.1	.99	7.0	.94	1.3	4.7	1.8	.82	.74	.45	.31	.43
17	1.0	6.0	11	.80	40	2.7	1.4	.62	.66	.43	16	.46
18	.97	1.3	1.3	1.8	2.3	2.0	1.3	.60	.53	.52	5.2	.34
19	1.0	14	1.4	26	1.5	1.7	1.2	.76	.58	4.1	.72	.32
20	.94	2.8	1.6	13	1.3	72	1.2	.67	.46	1.1	.40	6.7
21	.83	1.1	.84	2.5	1.3	45	1.3	3.1	.47	.42	.30	.75
22	1.0	.81	1.1	1.3	19	5.3	1.2	26	9.4	.36	.31	.56
23	1.3	.89	.78	1.1	2.4	3.0	1.2	2.5	2.8	1.5	.29	.55
24	1.0	.95	.67	1.0	1.6	2.4	2.6	1.9	.83	6.1	.42	125
25	.84	37	.67	.91	9.5	2.1	25	4.5	.77	4.7	.31	2.4
26	.80	2.9	.95	.86	2.5	1.9	1.8	31	8.9	3.1	.31	.81
27	1.0	1.1	1.3	.82	1.6	1.7	1.2	1.4	1.8	.68	.30	.51
28	.90	.78	1.4	.81	1.4	1.6	1.2	12	9.1	.41	.32	.41
29	.94	.55	.85	.81	---	141	1.2	8.3	1.8	1.8	.38	.36
30	1.1	.54	.81	4.1	---	15	1.1	1.4	.74	.92	.36	.28
31	.93	---	.81	1.1	---	4.8	---	.97	---	.77	1.0	---
TOTAL	32.45	96.73	43.58	88.63	112.60	446.0	89.4	110.45	141.42	73.57	47.92	245.29
MEAN	1.05	3.22	1.41	2.86	4.02	14.4	2.98	3.56	4.71	2.37	1.55	8.18
MAX	1.4	37	11	26	40	141	25	31	49	22	16	125
MIN	.75	.47	.45	.61	.71	1.3	1.1	.60	.46	.36	.29	.28
CFSM	.15	.46	.20	.41	.58	2.07	.43	.51	.68	.34	.22	1.18
IN.	.17	.52	.23	.47	.60	2.39	.48	.59	.76	.39	.26	1.31

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2001, BY WATER YEAR (WY)

MEAN	6.21	5.74	7.56	12.6	13.4	14.9	7.80	6.30	6.55	6.38	5.76	5.69
MAX	30.4	21.3	24.3	33.5	28.1	38.8	25.1	31.3	27.3	27.7	32.1	23.8
(WY)	1991	1986	1977	1978	1979	1977	1998	1975	1992	1997	1995	1987
MIN	.21	.54	.86	1.02	1.77	1.74	1.13	1.08	.75	.61	.24	.084
(WY)	1964	1970	1966	1981	1968	1985	1981	1962	1966	1963	1968	1970

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1962 - 2001
ANNUAL TOTAL	2256.99	1528.04	
ANNUAL MEAN	6.17	4.19	8.24
HIGHEST ANNUAL MEAN			13.8
LOWEST ANNUAL MEAN			3.19
HIGHEST DAILY MEAN	274	Sep 23	868
LOWEST DAILY MEAN	.30	Aug 29	.00
ANNUAL SEVEN-DAY MINIMUM	.44	Jun 20	.01
MAXIMUM PEAK FLOW		938	3470*
MAXIMUM PEAK STAGE		6.33	11.03
INSTANTANEOUS LOW FLOW		.22*	.00*
ANNUAL RUNOFF (CFSM)	.89	.60	1.19
ANNUAL RUNOFF (INCHES)	12.08	8.18	16.10
10 PERCENT EXCEEDS	12	6.8	15
50 PERCENT EXCEEDS	1.3	1.0	1.6
90 PERCENT EXCEEDS	.53	.44	.31

e Estimated.

* See REMARKS.

02146700 MCMULLEN CREEK AT SHARON VIEW ROAD NEAR CHARLOTTE, NC--Continued

