

Water-Data Report 2008

02146700 MCMULLEN CREEK AT SHARON VIEW ROAD NEAR CHARLOTTE, NC

Santee Basin
Lower Catawba Subbasin

LOCATION.--Lat 35°08'27", long 80°49'12" referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03050103, on left bank downstream of culvert wingwall at Sharon View Road (Secondary Road 3673), 3.3 mi south of Queens College, and 6.9 mi upstream from mouth, near Charlotte.

DRAINAGE AREA.--6.95 mi².

SURFACE-WATER RECORDS

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

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

GAGE.--Water-stage recorder, crest-stage gage, and concrete control. Datum of gage is 592.31 ft above North American Vertical of 1988. Prior to October 13, 1970, at site 237 ft upstream at same datum. October 13, 1970 to December 30, 1971, at site 154 ft downstream at 590.91 ft above NGVD of 1929. Radio telemetry at station.

REMARKS.--No estimated daily discharges. Records good. 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. Minimum discharge for current water year also occurred October 12-14.

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

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.12	0.42	0.31	1.9	82	2.5	3.7	2.5	1.3	0.39	0.29	4.5
2	0.11	0.36	0.31	1.5	6.1	2.2	2.3	2.1	2.0	0.39	0.32	1.4
3	0.12	0.51	0.36	1.3	3.5	1.5	6.4	1.9	1.2	0.32	0.34	0.86
4	0.20	0.52	0.43	1.3	2.6	89	6.4	1.8	1.1	0.33	0.24	0.80
5	1.0	0.57	0.37	1.4	2.4	22	13	1.8	1.0	3.4	0.32	0.89
6	0.30	0.43	0.31	1.6	2.1	4.3	3.7	1.6	1.0	50	0.42	0.97
7	0.20	0.55	0.32	1.4	1.7	24	2.4	1.6	0.96	2.3	1.2	0.93
8	0.16	0.40	0.70	1.3	1.5	7.4	2.3	1.7	0.92	89	0.54	0.93
9	0.13	0.29	0.88	1.3	1.4	3.1	2.0	1.7	0.89	6.4	0.45	0.93
10	0.24	0.29	0.95	2.5	1.3	2.6	2.0	1.8	0.81	3.4	1.1	30
11	0.12	0.29	0.98	4.9	1.5	2.3	1.9	5.8	5.5	1.7	0.42	6.1
12	0.10	2.6	1.0	1.8	4.8	2.0	15	2.0	3.8	0.79	0.36	1.7
13	0.10	0.25	1.1	1.5	16	1.9	2.8	1.5	1.1	87	18	1.5
14	0.10	0.27	1.00	1.6	4.5	1.8	2.1	1.6	0.96	8.3	1.6	0.99
15	0.11	3.0	11	1.7	2.1	95	2.0	1.6	0.95	1.4	3.1	0.83
16	0.12	0.85	33	1.3	1.8	12	1.8	5.2	0.82	0.78	2.6	65
17	0.24	0.38	1.7	40	1.9	4.3	1.7	1.7	1.00	0.56	9.1	6.5
18	0.27	0.31	1.2	3.6	5.8	2.9	1.8	2.5	1.2	0.45	1.3	1.7
19	11	0.28	1.2	9.2	1.8	21	1.8	2.3	0.85	0.39	0.72	1.2
20	0.72	0.26	1.1	3.8	1.6	7.2	2.0	2.5	19	0.38	0.58	1.0
21	0.27	0.33	6.6	1.6	3.7	3.0	1.6	1.9	24	0.33	0.50	0.93
22	0.20	0.92	1.6	3.2	12	2.6	1.6	1.3	10	15	2.1	0.97
23	0.23	0.54	6.4	2.7	2.8	2.3	1.5	1.2	16	24	0.85	0.80
24	22	0.48	2.4	1.4	2.1	2.0	1.6	1.8	1.1	2.8	0.62	0.74
25	25	0.94	1.5	1.3	2.1	2.0	1.5	1.7	0.62	0.71	6.9	0.79
26	21	2.4	22	1.2	21	1.9	32	1.6	0.45	0.54	179	58
27	2.3	1.5	2.1	1.2	3.8	1.8	36	1.4	1.9	0.56	786	24
28	0.67	0.64	15	1.2	2.7	1.9	90	30	0.89	0.42	4.8	2.9
29	0.44	0.38	7.5	1.2	2.5	1.8	8.8	3.1	0.57	0.93	14	1.6
30	0.43	0.36	50	3.1	---	1.6	3.4	1.6	0.49	0.39	4.7	1.3
31	0.39	---	6.4	1.3	---	5.4	---	1.3	---	0.33	18	---
Total	88.39	21.32	179.72	104.3	199.1	335.3	255.1	92.1	102.38	303.69	1,060.47	220.76
Mean	2.85	0.71	5.80	3.36	6.87	10.8	8.50	2.97	3.41	9.80	34.2	7.36
Max	25	3.0	50	40	82	95	90	30	24	89	786	65
Min	0.10	0.25	0.31	1.2	1.3	1.5	1.5	1.2	0.45	0.32	0.24	0.74
Cfsm	0.41	0.10	0.83	0.48	0.99	1.56	1.22	0.43	0.49	1.41	4.92	1.06
In.	0.47	0.11	0.96	0.56	1.07	1.79	1.37	0.49	0.55	1.63	5.68	1.18

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	6.04	6.01	7.64	11.6	12.4	14.4	8.02	6.73	7.23	6.83	6.77	5.85
Max	30.4	29.5	24.3	33.5	28.1	38.8	31.9	38.2	37.5	27.7	34.2	25.6
(WY)	(1991)	(2007)	(1977)	(1978)	(1979)	(1977)	(2003)	(2003)	(2003)	(1997)	(2008)	(2004)
Min	0.21	0.54	0.86	1.02	1.77	1.74	1.13	1.08	0.75	0.61	0.24	0.08
(WY)	(1964)	(1970)	(1966)	(1981)	(1968)	(1985)	(1981)	(1962)	(1966)	(1963)	(1968)	(1970)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1962 - 2008	
Annual total	1,916.71		2,962.63			
Annual mean	5.25		8.09		8.30	
Highest annual mean					17.4	2003
Lowest annual mean					3.19	1970
Highest daily mean	204	Mar 2	786	Aug 27	868	Aug 27, 1995
Lowest daily mean	0.10	Oct 12	0.10	Oct 12	0.00	Aug 31, 1962
Annual seven-day minimum	0.13	Oct 10	0.13	Oct 10	0.01	Sep 19, 1968
Maximum peak flow			4,020	Aug 27	^a 4,020	Aug 27, 2008
Maximum peak stage			11.44	Aug 27	11.44	Aug 27, 2008
Instantaneous low flow			^a 0.08	Oct 2	^a 0.00	Aug 31, 1962
Annual runoff (cfs)	0.756		1.16		1.19	
Annual runoff (inches)	10.26		15.86		16.22	
10 percent exceeds	9.6		15		15	
50 percent exceeds	1.7		1.6		1.6	
90 percent exceeds	0.26		0.32		0.34	

^aSee Remarks.