

Water-Data Report 2013

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 National Geodetic Vertical Datum of 1929. Radio telemetry at streamgage.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. 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, no flow, also occurred on several days during September.

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 2012 TO SEPTEMBER 2013
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	6.0	0.32	0.23	2.7	1.2	1.8	3.2	2.3	1.0	4.1	5.5	10
2	1.9	0.31	0.24	9.1	0.80	1.9	2.0	3.1	22	0.68	0.96	0.78
3	0.29	0.24	0.22	1.3	0.76	1.9	1.7	1.9	146	1.3	0.36	0.07
4	0.24	0.20	0.22	0.74	0.67	1.2	66	1.7	3.0	1.9	0.29	0.07
5	0.28	0.40	0.28	0.62	0.69	14	13	10	2.9	3.6	0.24	0.04
6	0.38	0.36	0.31	0.57	0.64	5.3	4.0	122	61	2.1	19	0.04
7	16	0.28	0.33	0.68	6.7	1.5	2.8	5.0	79	3.1	0.57	0.03
8	0.65	0.31	0.34	e0.59	12	1.2	2.5	3.8	153	1.5	0.37	0.02
9	0.41	0.36	0.92	e0.52	1.2	1.0	2.2	2.3	4.7	0.20	0.35	0.02
10	0.49	0.31	0.54	e0.49	1.2	1.0	2.1	2.0	73	0.75	0.28	0.04
11	0.45	0.24	0.46	0.53	5.4	1.1	2.1	2.1	6.4	12	0.30	0.01
12	0.37	0.33	1.0	0.56	1.3	72	14	3.6	1.9	1.3	0.30	0.00
13	0.38	1.9	0.77	0.65	3.2	3.6	2.3	1.7	8.8	3.0	0.32	0.00
14	0.43	0.34	0.33	2.2	1.3	2.0	1.8	1.8	2.1	6.8	0.28	0.00
15	1.00	17	0.26	1.3	0.88	1.7	1.7	1.4	0.85	0.46	0.11	0.02
16	1.6	0.19	2.1	3.4	3.8	1.5	1.6	1.3	0.64	0.15	0.20	0.05
17	0.22	0.28	15	171	2.4	1.3	1.6	1.3	0.57	0.16	28	0.03
18	0.30	0.40	0.61	21	1.1	41	1.5	1.3	1.1	0.16	1.9	0.01
19	0.65	0.44	0.32	2.7	6.9	16	4.0	36	1.2	0.17	15	0.02
20	0.45	0.42	13	1.7	1.5	2.7	2.8	23	0.39	0.11	0.51	0.01
21	0.25	0.38	3.4	1.4	0.87	2.0	1.3	34	0.32	73	0.24	29
22	0.56	0.30	0.48	1.3	7.0	1.5	1.3	9.6	0.31	5.4	0.38	59
23	0.32	0.34	0.37	0.84	36	1.7	1.4	71	1.2	0.82	0.29	0.39
24	0.44	0.37	8.7	0.68	3.7	60	1.3	3.4	0.98	61	0.08	0.08
25	0.42	0.43	1.6	1.1	1.7	7.1	1.2	2.0	0.33	4.3	0.07	1.1
26	0.28	0.26	72	1.2	87	3.0	1.1	1.7	0.26	0.82	0.07	0.39
27	0.29	2.2	2.2	0.65	5.9	2.2	2.4	1.5	0.60	35	0.07	0.06
28	0.28	0.96	0.77	0.74	2.5	1.9	79	1.4	2.6	2.0	0.07	0.04
29	0.33	0.29	6.9	0.62	---	1.7	33	1.3	6.1	1.8	0.08	0.04
30	0.29	0.25	0.91	17	---	7.3	3.7	1.3	9.9	0.59	0.07	0.03
31	0.20	---	0.51	10	---	14	---	1.2	---	4.4	0.09	---
Total	36.15	30.41	135.32	257.88	198.31	276.1	258.6	356.0	592.15	232.67	76.35	101.39
Mean	1.17	1.01	4.37	8.32	7.08	8.91	8.62	11.5	19.7	7.51	2.46	3.38
Max	16	17	72	171	87	72	79	122	153	73	28	59
Min	0.20	0.19	0.22	0.49	0.64	1.0	1.1	1.2	0.26	0.11	0.07	0.00
Cfsm	0.17	0.15	0.63	1.20	1.02	1.28	1.24	1.65	2.84	1.08	0.35	0.49
In.	0.19	0.16	0.72	1.38	1.06	1.48	1.38	1.91	3.17	1.25	0.41	0.54

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1962 - 2013, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	5.68	5.93	7.65	11.4	12.0	14.1	7.68	7.06	7.86	7.30	6.53	5.84
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)

02146700 MCMULLEN CREEK AT SHARON VIEW ROAD NEAR CHARLOTTE, NC—Continued**SUMMARY STATISTICS**

	Calendar Year 2012	Water Year 2013	Water Years 1962 - 2013	
Annual total	2,266.07	2,551.33		
Annual mean	6.19	6.99	8.26	
Highest annual mean			17.4	2003
Lowest annual mean			3.19	1970
Highest daily mean	377 Jul 20	171 Jan 17	868 Aug 27, 1995	
Lowest daily mean	0.19 Nov 16	^a 0.00 Sep 12	^a 0.00 Aug 31, 1962	
Annual seven-day minimum	0.25 Nov 29	0.01 Sep 8	0.01 Sep 19, 1968	
Maximum peak flow		1,460 Jun 7	^a 4,020 Aug 27, 2008	
Maximum peak stage		7.76 Jun 7	11.44 Aug 27, 2008	
Instantaneous low flow		^a 0.00 Nov 26	^a 0.00 Aug 31, 1962	
Annual runoff (cfsm)	0.891	1.01	1.19	
Annual runoff (inches)	12.13	13.66	16.14	
10 percent exceeds	12	14	15	
50 percent exceeds	1.3	1.2	1.6	
90 percent exceeds	0.32	0.17	0.34	

^a See Remarks.

