

Water-Data Report 2010

0214266080 GAR CREEK AT SECONDARY ROAD 2074 NEAR CROFT, NC

Santee Basin
Upper Catawba Subbasin

LOCATION.--Lat 35°21'41", long 80°53'51" referenced to North American Datum of 1983, Mecklenburg County, NC, Hydrologic Unit 03050101, at Secondary Road 2074, and 4.3 mi west of Croft.

DRAINAGE AREA.--3.55 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--October 2002 to current year.

GAGE.--Water-stage recorder and crest-stage gage. Datum of gage is 658.61 ft above North American Vertical Datum of 1988. Satellite telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records fair. Maximum discharge for period of record and current water year from rating curve extended above 100 ft³/s on basis of computation of peak flow through culvert. No flow also occurred August 9 to September 30, 2007, October 2 to November 2, 2007, August 4 to August 25, 2008. Minimum discharge for current water year also occurred September 24-26.

0214266080 GAR CREEK AT SECONDARY ROAD 2074 NEAR CROFT, NC—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	0.06	12	1.2	1.9	2.8	1.8	3.4	0.91	3.9	0.59	0.26	0.19
2	0.09	1.4	32	1.5	13	2.0	2.8	0.89	1.7	0.41	0.26	0.13
3	0.09	0.74	14	1.4	14	2.6	2.4	1.0	1.2	0.28	0.20	0.12
4	0.09	0.54	4.1	1.3	7.4	2.1	2.1	0.94	0.95	0.24	0.19	0.12
5	0.21	0.50	2.8	1.2	94	1.8	1.9	0.85	0.83	0.20	0.76	0.10
6	0.26	0.51	2.1	1.2	23	1.7	1.7	0.73	0.92	0.15	0.62	0.10
7	0.28	0.50	1.7	1.1	6.8	1.6	1.5	0.69	1.2	0.17	0.39	0.11
8	0.25	0.51	2.6	1.1	4.3	1.6	1.6	0.67	0.70	0.12	0.19	0.12
9	0.23	0.50	41	0.99	4.3	1.6	1.8	0.51	0.63	0.11	0.13	0.15
10	0.25	4.1	6.7	0.98	4.1	1.6	1.4	0.55	0.63	0.18	0.12	0.12
11	0.25	66	3.1	0.94	3.0	1.7	1.4	0.65	0.58	0.11	0.12	0.15
12	0.29	21	2.4	1.00	2.8	13	1.3	0.68	0.56	13	0.09	0.32
13	0.42	5.1	3.1	0.90	3.0	22	1.3	0.61	1.3	4.0	0.08	0.29
14	0.47	2.7	2.7	0.90	2.8	8.1	1.2	0.60	0.90	3.3	0.06	0.23
15	0.64	1.8	2.3	0.90	3.2	4.5	1.2	0.56	0.57	0.58	0.62	0.21
16	0.54	1.4	1.9	0.94	2.8	3.2	1.2	0.71	0.53	0.43	0.29	0.16
17	0.53	1.2	1.7	39	2.4	2.7	1.2	6.1	0.48	1.0	0.12	0.11
18	0.48	1.2	4.0	6.8	2.2	2.4	1.1	2.8	0.44	0.88	0.12	0.10
19	0.42	1.1	16	3.3	2.0	2.1	1.1	1.7	0.43	0.47	31	0.13
20	0.42	1.0	6.5	2.4	1.8	1.9	1.1	1.0	0.39	0.37	4.1	0.12
21	0.42	0.97	3.4	4.3	1.8	2.0	1.1	0.89	0.38	0.30	1.00	0.07
22	0.40	1.0	2.6	5.2	3.7	2.8	1.0	0.96	0.32	0.25	0.68	0.07
23	0.39	5.6	2.2	2.9	3.8	2.1	1.1	0.91	0.32	0.22	0.48	0.06
24	1.2	2.6	1.9	27	3.4	1.8	0.99	0.88	0.35	0.19	0.39	0.06
25	0.54	1.8	78	80	3.4	1.8	1.7	0.90	0.45	0.17	0.35	0.04
26	0.46	2.2	12	6.6	2.6	1.8	1.1	0.85	0.33	0.17	0.56	0.14
27	2.3	3.3	4.6	3.9	2.3	1.5	1.2	0.75	0.30	0.37	0.34	1.8
28	4.4	1.8	2.8	3.0	2.0	45	1.4	0.73	0.31	0.47	0.26	2.4
29	0.59	1.4	2.1	2.6	---	68	1.0	0.92	0.30	0.25	0.26	0.47
30	0.39	1.3	1.8	3.0	---	8.3	0.96	0.71	1.9	0.18	0.24	0.93
31	0.71	---	2.2	2.4	---	4.4	---	1.0	---	0.15	0.19	---
Total	18.07	145.77	265.5	210.65	222.7	219.5	44.25	32.65	23.80	29.31	44.47	9.12
Mean	0.58	4.86	8.56	6.80	7.95	7.08	1.48	1.05	0.79	0.95	1.43	0.30
Max	4.4	66	78	80	94	68	3.4	6.1	3.9	13	31	2.4
Min	0.06	0.50	1.2	0.90	1.8	1.5	0.96	0.51	0.30	0.11	0.06	0.04
Cfsm	0.16	1.37	2.41	1.91	2.24	1.99	0.42	0.30	0.22	0.27	0.40	0.09
In.	0.19	1.53	2.78	2.21	2.33	2.30	0.46	0.34	0.25	0.31	0.47	0.10

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.80	2.37	3.40	2.73	3.02	4.44	3.14	1.65	1.58	0.90	1.22	1.05
Max	1.73	6.02	8.56	6.80	7.95	7.74	10.8	7.40	4.42	3.92	5.66	2.70
(WY)	(2006)	(2007)	(2010)	(2010)	(2010)	(2003)	(2003)	(2003)	(2003)	(2003)	(2008)	(2006)
Min	0.00	0.04	0.57	0.60	0.99	1.20	1.20	0.59	0.38	0.17	0.02	0.00
(WY)	(2008)	(2008)	(2008)	(2008)	(2008)	(2004)	(2004)	(2004)	(2008)	(2006)	(2007)	(2007)

0214266080 GAR CREEK AT SECONDARY ROAD 2074 NEAR CROFT, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 2002 - 2010	
Annual total	1,037.52		1,265.79			
Annual mean	2.84		3.47		2.19	
Highest annual mean					4.27	2003
Lowest annual mean					1.21	2004
Highest daily mean	78	Dec 25	94	Feb 5	159	Aug 27, 2008
Lowest daily mean	0.04	Sep 6	0.04	Sep 25	0.00	Aug 14, 2007
Annual seven-day minimum	0.08	Sep 3	0.08	Sep 19	0.00	Aug 19, 2007
Maximum peak flow			^a 569	Jan 25	^a 1,230	Jul 13, 2003
Maximum peak stage			6.35	Jan 25	9.84	Jul 13, 2003
Instantaneous low flow			^a 0.02	Sep 23	^a 0.00	Aug 8, 2007
Annual runoff (cfsm)	0.801		0.977		0.616	
Annual runoff (inches)	10.87		13.26		8.37	
10 percent exceeds	4.1		4.4		3.4	
50 percent exceeds	0.90		1.0		0.85	
90 percent exceeds	0.11		0.15		0.12	

^a See Remarks.

