

Water-Data Report 2008

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 station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. 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.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.12	0.68	9.4	0.50	1.0	0.82	0.35	0.10	0.25	0.44
2	0.00	0.01	0.13	0.45	2.7	0.45	0.86	0.67	0.31	0.08	0.08	0.33
3	0.00	e0.01	0.14	0.36	1.3	0.42	0.84	0.52	0.27	0.08	0.06	0.30
4	0.00	e0.01	0.19	0.31	0.94	5.1	3.2	0.49	0.30	0.40	0.05	0.26
5	0.00	e0.01	0.18	0.30	0.73	8.1	13	0.50	0.22	0.54	0.05	0.22
6	0.00	e0.01	0.17	0.28	0.64	2.1	6.8	0.48	0.19	1.7	0.05	0.23
7	0.00	e0.01	0.13	0.27	0.59	5.7	3.4	0.42	0.15	0.33	0.04	0.19
8	0.00	e0.02	0.13	0.25	0.51	4.3	2.3	0.42	0.14	4.1	0.04	1.1
9	0.00	0.02	0.15	0.25	0.48	2.0	1.7	1.2	0.12	2.1	0.04	1.0
10	0.00	0.02	0.16	0.36	0.41	1.4	1.4	0.47	0.12	0.61	0.04	12
11	0.00	0.02	0.17	0.50	0.38	1.2	1.2	0.72	0.09	0.54	0.04	11
12	0.00	0.02	0.15	0.38	0.43	1.0	1.3	0.67	0.07	0.30	0.03	2.2
13	0.00	0.02	0.16	0.33	0.64	0.88	1.2	0.41	0.07	0.23	0.05	1.3
14	0.00	0.02	0.16	0.32	0.60	0.77	1.0	0.40	0.06	0.19	0.06	0.78
15	0.00	0.02	0.20	0.31	0.50	9.6	0.98	0.41	0.06	0.14	0.05	0.61
16	0.00	0.03	1.2	0.27	0.47	7.2	0.90	0.61	0.06	0.12	0.04	2.3
17	0.00	0.04	0.36	2.9	0.49	2.7	0.90	0.40	0.06	0.10	0.04	2.0
18	0.00	0.04	0.26	2.0	0.64	1.9	0.79	0.59	0.04	0.08	0.04	0.94
19	0.00	0.04	0.26	1.2	0.49	2.6	0.76	0.68	0.03	0.07	0.04	0.58
20	0.00	0.04	0.27	1.4	0.48	3.7	0.79	4.1	0.02	0.07	0.03	0.48
21	0.00	0.04	0.36	0.79	0.51	1.9	0.74	2.4	0.02	0.06	0.03	0.41
22	0.00	0.05	0.35	0.73	0.65	1.6	0.73	0.80	2.1	0.24	0.04	0.38
23	0.00	0.05	0.45	0.67	0.59	1.3	0.64	0.54	4.7	0.46	0.03	0.33
24	0.00	0.06	0.54	0.54	0.50	1.2	0.62	0.46	0.38	0.10	0.04	0.33
25	0.00	0.07	0.34	0.47	0.50	1.0	0.62	0.41	0.10	0.06	0.07	0.33
26	0.00	0.08	0.83	0.48	1.1	0.99	0.57	0.36	0.08	0.08	7.7	1.5
27	0.00	0.08	0.60	0.44	0.90	0.93	0.63	0.33	0.11	0.08	159	4.2
28	0.00	0.08	0.59	0.41	0.61	0.90	2.8	1.3	0.67	0.06	4.8	1.3
29	0.00	0.12	1.5	0.36	0.51	0.90	1.7	1.1	0.44	0.15	1.4	0.82
30	0.00	0.12	4.2	0.33	---	0.80	0.97	0.55	0.16	0.08	0.73	0.59
31	0.01	---	3.1	0.28	---	0.94	---	0.44	---	0.20	0.52	---
Total	0.01	1.16	17.55	18.62	28.69	74.08	54.34	23.67	11.49	13.45	175.48	48.45
Mean	0.00	0.04	0.57	0.60	0.99	2.39	1.81	0.76	0.38	0.43	5.66	1.61
Max	0.01	0.12	4.2	2.9	9.4	9.6	13	4.1	4.7	4.1	159	12
Min	0.00	0.00	0.12	0.25	0.38	0.42	0.57	0.33	0.02	0.06	0.03	0.19
Cfsm	0.00	0.01	0.16	0.17	0.28	0.67	0.51	0.22	0.11	0.12	1.59	0.45
In.	0.00	0.01	0.18	0.20	0.30	0.78	0.57	0.25	0.12	0.14	1.84	0.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 2002 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	0.87	2.21	2.58	1.90	2.44	3.56	3.37	1.84	1.58	0.98	1.34	1.33
Max	1.73	6.02	5.22	4.02	3.88	7.74	10.8	7.40	4.42	3.92	5.66	2.70
(WY)	(2006)	(2007)	(2003)	(2007)	(2003)	(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)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 2002 - 2008	
Annual total	490.40		466.99			
Annual mean	1.34		1.28		1.99	
Highest annual mean					4.27	2003
Lowest annual mean					1.21	2004
Highest daily mean	54	Mar 2	159	Aug 27	159	Aug 27, 2008
Lowest daily mean	0.00	Aug 14	0.00	Oct 1	0.00	Aug 14, 2007
Annual seven-day minimum	0.00	Aug 19	0.00	Oct 1	0.00	Aug 19, 2007
Maximum peak flow			^a 1,180	Aug 27	^a 1,230	Jul 13, 2003
Maximum peak stage			9.60	Aug 27	9.84	Jul 13, 2003
Instantaneous low flow			^a 0.00	Oct 1	^a 0.00	Aug 8, 2007
Annual runoff (cfs)	0.378		0.359		0.562	
Annual runoff (inches)	5.14		4.89		7.63	
10 percent exceeds	2.1		2.0		3.2	
50 percent exceeds	0.40		0.38		0.83	
90 percent exceeds	0.00		0.01		0.12	

^aSee Remarks.