

Water-Data Report 2008

02095271 NORTH BUFFALO CREEK AT CHURCH STREET AT GREENSBORO, NC

Cape Fear Basin
Haw Subbasin

LOCATION.--Lat 36°05'52", long 79°46'57" referenced to North American Datum of 1983, Guilford County, NC, Hydrologic Unit 03030002, on right bank at upstream side of Church Street, and .1 mi upstream from Southern Railway bridge at Greensboro.

DRAINAGE AREA.--14.2 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1998 to current year.

REVISED RECORDS.--WDR NC-02-1B: 1998-2001 (maximum discharges).

GAGE.--Water-stage recorder. Datum of gage is 738.52 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair below 300 ft³/s. Records poor for daily discharges above 300 ft³/s, and those for estimated daily discharges. Minimum discharge for current water year also occurred October 10.

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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	0.99	2.8	2.5	9.2	139	3.1	43	7.0	19	6.4	22	3.9
2	1.1	3.5	2.9	5.8	15	2.9	10	7.0	4.7	3.9	2.0	6.5
3	0.93	2.9	2.8	4.4	7.4	2.8	57	6.9	3.4	3.5	1.9	8.2
4	1.2	2.6	3.0	3.7	25	88	83	7.9	3.3	6.0	1.8	6.6
5	1.3	2.7	2.7	4.0	13	49	164	5.1	2.9	51	2.4	3.1
6	1.1	2.6	2.7	3.4	7.2	7.1	128	4.6	2.9	46	2.1	166
7	0.79	3.1	2.8	3.1	6.0	52	19	4.1	2.5	4.3	2.0	8.4
8	0.75	2.4	4.1	3.2	4.7	64	12	4.1	2.5	55	1.6	3.8
9	0.95	2.9	2.8	3.5	4.3	12	10	15	2.6	45	1.5	3.1
10	1.0	2.8	3.6	12	3.9	6.9	9.4	5.2	2.5	10	8.8	6.3
11	0.74	3.2	3.0	11	4.1	5.4	8.6	12	2.2	3.8	1.8	25
12	0.84	3.0	2.7	3.7	4.0	4.7	8.4	11	2.5	3.0	1.5	5.9
13	0.84	3.9	2.6	3.0	58	4.2	7.7	4.3	3.3	91	2.6	4.2
14	0.91	3.5	2.5	2.6	28	3.7	7.1	3.5	2.6	19	3.1	3.2
15	0.72	53	28	2.7	8.8	65	6.7	3.9	5.1	4.3	1.9	2.0
16	0.76	4.2	59	2.4	5.5	16	5.7	19	2.6	3.5	1.5	215
17	1.0	3.1	5.6	55	4.6	5.3	5.5	4.1	2.1	2.8	1.4	15
18	0.76	3.1	2.8	11	7.8	4.3	5.1	20	1.9	3.0	1.6	3.9
19	46	4.0	2.7	7.2	3.6	20	5.8	11	2.1	6.5	1.6	2.6
20	3.5	3.4	2.8	6.8	3.2	31	70	3.8	2.0	2.7	1.3	2.3
21	1.8	3.4	13	4.8	3.0	5.3	33	3.3	15	2.4	13	2.1
22	1.8	19	3.7	4.6	5.3	4.5	9.0	2.9	204	2.1	2.5	1.7
23	2.0	3.8	31	5.7	3.4	4.0	7.3	3.0	55	66	1.7	1.7
24	35	3.0	7.4	3.6	5.8	7.1	5.3	2.9	7.6	21	1.2	2.3
25	118	3.1	3.6	3.5	6.2	3.9	4.8	2.6	3.6	2.8	1.5	2.6
26	345	6.3	40	3.1	44	3.7	4.3	2.6	3.1	2.2	61	130
27	48	3.3	6.4	3.4	7.5	3.8	22	2.5	3.0	2.0	e1,070	37
28	5.6	3.1	43	3.0	3.8	3.9	188	13	2.8	1.9	53	14
29	3.9	2.7	28	3.0	3.2	24	20	4.8	19	1.8	9.7	5.7
30	4.1	3.0	143	8.2	---	9.0	8.8	2.7	272	1.8	6.9	5.2
31	3.3	---	34	3.2	---	53	---	157	---	6.4	4.7	---
Total	634.68	163.4	494.7	203.8	435.3	569.6	968.5	356.8	657.8	481.1	1,289.6	697.3
Mean	20.5	5.45	16.0	6.57	15.0	18.4	32.3	11.5	21.9	15.5	41.6	23.2
Max	345	53	143	55	139	88	188	157	272	91	1,070	215
Min	0.72	2.4	2.5	2.4	3.0	2.8	4.3	2.5	1.9	1.8	1.2	1.7
Cfs/m	1.44	0.38	1.12	0.46	1.06	1.29	2.27	0.81	1.54	1.09	2.93	1.64
In.	1.66	0.43	1.30	0.53	1.14	1.49	2.54	0.93	1.72	1.26	3.38	1.83

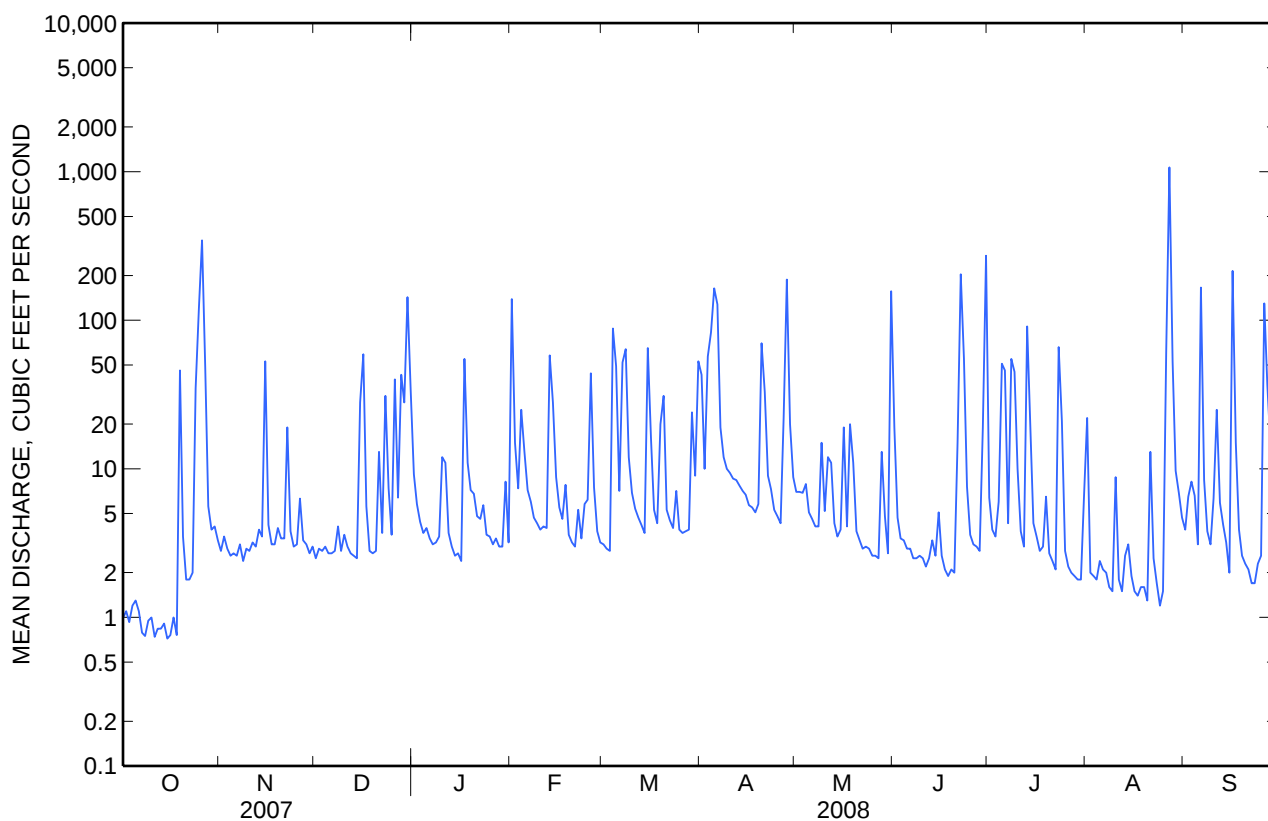
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	15.9	17.8	20.1	18.5	19.7	24.2	24.0	14.4	22.7	20.9	17.6	28.0
Max	52.1	50.1	33.8	29.4	38.2	67.5	65.5	47.6	44.1	36.8	41.6	63.8
(WY)	(2003)	(2007)	(2003)	(1999)	(2003)	(2003)	(2003)	(2003)	(2006)	(2001)	(2008)	(2004)
Min	4.71	3.99	10.1	6.57	9.64	7.16	6.20	4.77	9.73	5.95	2.62	3.23
(WY)	(1999)	(2002)	(2001)	(2008)	(2006)	(2006)	(2002)	(2007)	(2002)	(2007)	(2007)	(2005)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1998 - 2008	
Annual total	5,324.67		6,952.58			
Annual mean	14.6		19.0		20.5	
Highest annual mean					43.5	2003
Lowest annual mean					13.3	2002
Highest daily mean	401	Apr 15	1,070	Aug 27	1,070	Aug 27, 2008
Lowest daily mean	0.72	Oct 15	0.72	Oct 15	0.72	Oct 15, 2007
Annual seven-day minimum	0.83	Oct 10	0.83	Oct 10	0.83	Oct 10, 2007
Maximum peak flow			NOT DETERMINED		NOT DETERMINED	
Maximum peak stage			17.20	Aug 27	17.81	Sep 23, 2003
Instantaneous low flow			^a 0.52	Oct 1	0.49	Sep 20, 2007
Annual runoff (cfs)	1.03		1.34		1.44	
Annual runoff (inches)	13.95		18.21		19.60	
10 percent exceeds	28		46		47	
50 percent exceeds	4.1		4.0		6.7	
90 percent exceeds	1.3		1.8		2.8	

^aSee Remarks.

02095271 NORTH BUFFALO CREEK AT CHURCH STREET AT GREENSBORO, NC—Continued**CLIMATOLOGICAL RECORDS**

PERIOD OF RECORD.--August 1998 to current year.

INSTRUMENTATION.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.00	0.00	0.95	0.00	0.16	0.00	0.00	0.00	0.01	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.04	0.00	0.52	0.00	0.00	0.00	0.00	0.00
4	0.03	0.00	0.00	0.00	0.21	0.92	0.77	0.00	0.00	0.21	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.49	0.00	0.04
6	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.13	0.00	1.15
7	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.29	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.31	0.00	0.00
10	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.01	0.12	0.03
11	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.17	0.00	0.00	0.01	0.19
12	0.00	0.00	0.00	0.00	0.08	0.00	0.01	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00	0.87	0.09	0.00
14	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.03	0.03	0.07	0.00	0.00
15	0.00	0.18	0.67	0.00	0.00	0.57	0.01	0.05	0.00	0.00	0.00	0.00
16	0.00	0.00	0.18	0.00	0.00	0.00	0.00	0.16	0.00	0.00	0.00	1.56
17	0.00	0.00	0.00	0.53	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.36	0.00	0.00	0.00	0.00
19	0.61	0.01	0.01	0.00	0.00	0.24	0.17	0.00	0.00	0.18	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.16	0.50	0.00	0.00	0.00	0.01	0.00
21	0.00	0.00	0.13	0.00	0.00	0.00	0.25	0.00	0.08	0.00	0.00	0.00
22	0.00	0.03	0.00	0.05	0.05	0.00	0.02	0.00	1.90	0.00	0.00	0.00
23	0.04	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.05	0.50	0.00	0.00
24	0.67	0.00	0.00	0.00	0.08	0.05	0.00	0.01	0.00	0.00	0.00	0.00
25	0.87	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.02
26	2.44	0.00	0.30	0.00	0.36	0.00	0.00	0.00	0.00	0.00	0.71	0.92
27	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.10	0.00	0.00	3.84	0.37
28	0.00	0.00	0.42	0.00	0.00	0.00	1.00	0.18	0.00	0.00	0.09	0.01
29	0.00	0.00	0.03	0.00	0.00	0.26	0.01	0.00	1.23	0.00	0.04	0.00
30	0.00	0.00	1.06	0.06	---	0.05	0.00	0.00	0.85	0.00	0.01	0.22
31	0.00	---	0.01	0.00	---	0.50	---	1.37	---	0.31	0.00	---
Total	4.66	0.22	3.13	0.87	2.38	3.29	4.32	2.47	4.14	3.37	4.98	4.51

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