

Water-Data Report 2008

02095500 NORTH BUFFALO CREEK NEAR GREENSBORO, NC

Cape Fear Basin
Haw Subbasin

LOCATION.--Lat 36°07'14", long 79°42'29" referenced to North American Datum of 1983, Guilford County, NC, Hydrologic Unit 03030002, on left bank at downstream of bridge on Secondary Road 2832, 4.2 mi upstream from mouth, 5.8 mi northeast of post office in Greensboro.

DRAINAGE AREA.--37.1 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1928 to October 1990, August 1998 to current year.

REVISED RECORDS.--WSP 1303: 1929, 1931-42, monthly and yearly runoff. WSP 1383: 1928(M), 1929, 1933-34(M), 1936(M), 1941(M), 1943(M), 1945(M).
WDR NC-80-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Datum of gage is 678.02 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Diurnal fluctuation at low flow caused by mills upstream from station. Diversions into basin from City of Greensboro and Proximity Mills enter upstream from the station. Maximum discharge for period of record, 9,140 ft³/s, from rating curve extended above 2,900 ft³/s on basis of contracted-opening measurements at gage heights 14.15 ft, 15.96 ft and 16.63 ft. Maximum gage height for period of record, from floodmarks. Minimum discharge for the current water year also occurred October 13.

02095500 NORTH BUFFALO CREEK NEAR GREENSBORO, NC—Continued

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	13	18	19	32	270	22	114	25	124	28	47	15
2	14	17	20	24	51	21	44	22	26	19	15	15
3	14	17	20	21	30	21	74	20	20	17	14	18
4	14	17	19	19	47	123	184	20	18	16	14	17
5	15	16	20	19	49	175	473	18	17	43	14	14
6	14	17	20	19	27	38	376	19	18	113	14	256
7	14	16	19	18	22	116	69	18	16	19	14	28
8	14	18	20	18	19	132	38	18	15	61	14	18
9	14	18	21	18	18	50	29	56	16	100	13	15
10	15	19	20	24	19	34	25	23	15	40	20	16
11	14	18	19	29	18	29	23	22	15	19	15	36
12	14	18	19	19	18	27	22	31	17	16	14	19
13	13	17	19	18	93	25	21	18	18	137	13	16
14	13	17	19	17	62	23	19	17	16	83	16	15
15	14	87	22	17	36	111	20	16	18	21	15	14
16	14	21	150	18	27	71	19	39	16	17	14	360
17	14	16	22	108	25	30	19	18	15	15	13	48
18	15	16	18	37	29	25	18	34	15	15	13	22
19	75	17	17	25	23	38	18	36	15	32	14	17
20	18	18	17	27	22	88	130	18	15	17	13	16
21	14	19	27	21	21	30	97	17	16	15	19	15
22	14	36	19	20	24	26	30	15	278	14	15	15
23	12	22	50	23	23	25	25	16	232	56	14	14
24	118	19	29	20	21	28	22	16	33	80	13	14
25	184	19	19	19	29	25	19	16	19	16	13	14
26	591	23	64	19	86	23	18	15	16	15	61	191
27	318	22	25	19	34	22	57	15	16	14	1,630	61
28	31	19	66	19	24	21	433	29	15	14	141	43
29	21	20	72	18	22	50	94	22	16	13	29	21
30	18	20	270	24	---	30	33	16	469	14	20	18
31	17	---	122	18	---	105	---	186	---	14	17	---
Total	1,683	637	1,283	747	1,189	1,584	2,563	851	1,555	1,093	2,291	1,381
Mean	54.3	21.2	41.4	24.1	41.0	51.1	85.4	27.5	51.8	35.3	73.9	46.0
Max	591	87	270	108	270	175	473	186	469	137	1,630	360
Min	12	16	17	17	18	21	18	15	15	13	13	14
Cfsm	1.46	0.57	1.12	0.65	1.11	1.38	2.30	0.74	1.40	0.95	1.99	1.24
In.	1.69	0.64	1.29	0.75	1.19	1.59	2.57	0.85	1.56	1.10	2.30	1.38

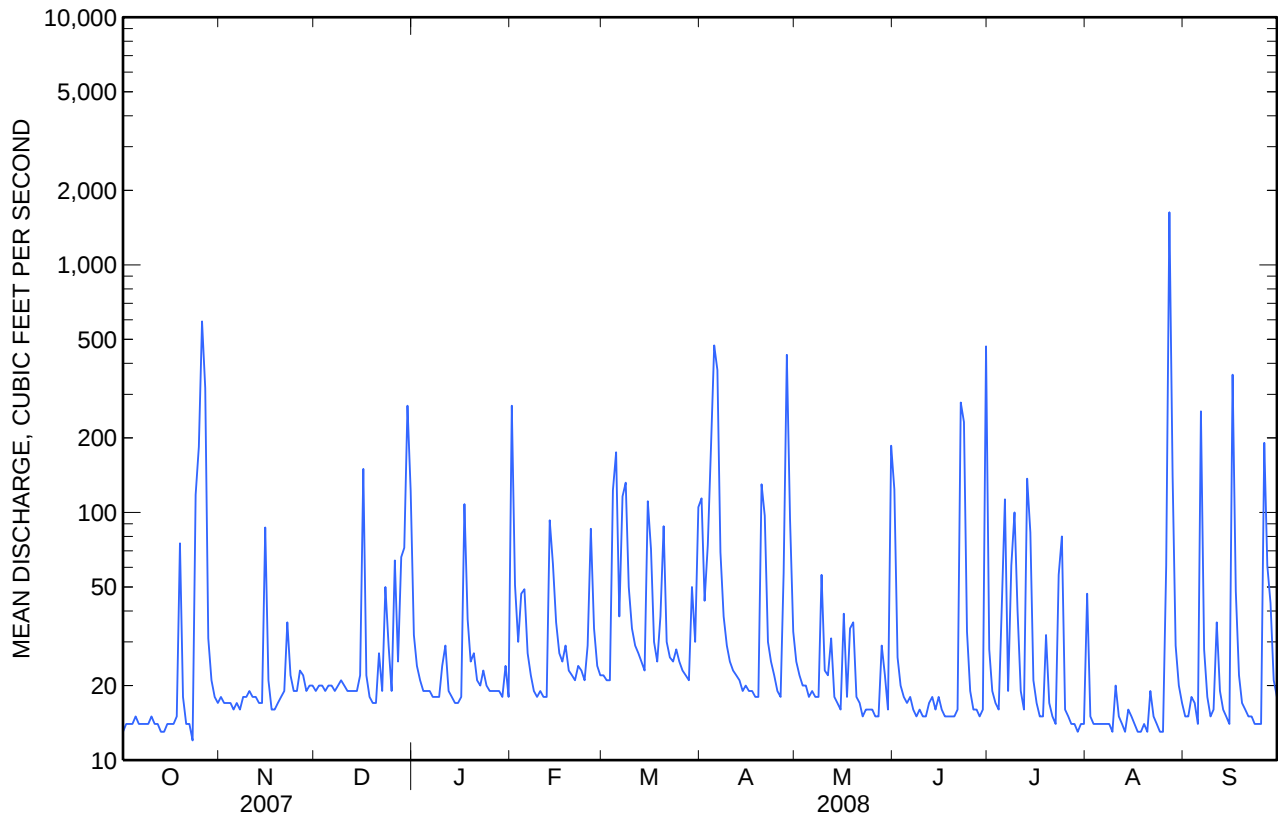
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2008^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	43.3	44.2	56.7	69.2	80.7	78.4	66.7	51.8	51.3	51.2	43.5	50.8
Max	154	120	129	205	185	231	206	177	192	231	112	247
(WY)	(1960)	(1986)	(1973)	(1978)	(1979)	(1975)	(1987)	(1978)	(1982)	(1984)	(1984)	(1979)
Min	7.71	8.73	13.1	17.3	22.0	26.9	20.3	16.2	10.2	11.2	7.82	8.63
(WY)	(1931)	(1932)	(1934)	(1934)	(1931)	(2006)	(1942)	(1938)	(1933)	(1932)	(1932)	(1930)

02095500 NORTH BUFFALO CREEK NEAR GREENSBORO, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1928 - 2008 ^a	
Annual total	16,322		16,857			
Annual mean	44.7		46.1		57.1	
Highest annual mean					109	2003
Lowest annual mean					30.6	1938
Highest daily mean	908	Apr 15	1,630	Aug 27	4,400	Sep 22, 1979
Lowest daily mean	12	Oct 23	12	Oct 23	3.4	Aug 28, 1932
Annual seven-day minimum	14	Sep 25	14	Oct 11	6.2	Aug 28, 1930
Maximum peak flow			3,350	Aug 27	^b 9,140	Sep 22, 1979
Maximum peak stage			12.62	Aug 27	^b 20.12	Sep 22, 1979
Instantaneous low flow			^b 7.0	Oct 1	1.6	Aug 28, 1932
Annual runoff (cfsm)	1.21		1.24		1.54	
Annual runoff (inches)	16.37		16.90		20.91	
10 percent exceeds	67		93		99	
50 percent exceeds	23		19		31	
90 percent exceeds	16		14		16	

^aSee Period of Record.^bSee Remarks.

02095500 NORTH BUFFALO CREEK NEAR 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	1.04	0.00	0.16	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
3	0.00	0.00	0.00	0.00	0.04	0.00	0.60	0.00	0.00	0.00	0.00	0.00
4	0.01	0.00	0.00	0.00	0.22	0.94	0.83	0.00	0.00	0.05	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.61	0.00	0.03
6	0.00	0.01	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.05	0.00	1.37
7	0.00	0.00	0.00	0.00	0.00	0.54	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.68	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00	0.25	0.00	0.00
10	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.01	0.10	0.09
11	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.20	0.00	0.00	0.00	0.12
12	0.00	0.00	0.00	0.00	0.08	0.00	0.02	0.00	0.25	0.00	0.00	0.00
13	0.00	0.01	0.00	0.00	0.32	0.00	0.00	0.01	0.00	0.71	0.11	0.00
14	0.00	0.00	0.00	0.00	0.22	0.00	0.00	0.00	0.04	0.10	0.01	0.00
15	0.00	0.53	0.68	0.00	0.00	0.65	0.00	0.13	0.01	0.00	0.00	0.00
16	0.00	0.00	0.26	0.00	0.00	0.01	0.00	0.22	0.00	0.00	0.00	1.57
17	0.00	0.00	0.00	0.60	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.10	0.01	0.00	0.00	0.35	0.00	0.00	0.00	0.00
19	0.64	0.00	0.01	0.01	0.00	0.28	0.34	0.01	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.01	0.00	0.15	0.78	0.07	0.00	0.00	0.00	0.00
21	0.00	0.00	0.17	0.00	0.00	0.00	0.30	0.00	0.44	0.00	0.00	0.00
22	0.00	0.15	0.00	0.06	0.03	0.00	0.03	0.00	2.12	0.00	0.00	0.00
23	0.10	0.00	0.31	0.00	0.00	0.00	0.00	0.00	0.02	0.74	0.00	0.00
24	1.90	0.00	0.00	0.00	0.09	0.10	0.00	0.02	0.00	0.01	0.00	0.00
25	0.97	0.04	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.04	0.06
26	3.64	0.04	0.29	0.00	0.39	0.00	0.00	0.00	0.11	0.00	0.86	1.15
27	0.01	0.00	0.00	0.00	0.00	0.00	1.06	0.21	0.00	0.00	4.04	0.20
28	0.00	0.00	0.44	0.00	0.00	0.00	0.96	0.25	0.00	0.00	0.02	0.04
29	0.00	0.00	0.04	0.00	0.00	0.28	0.01	0.00	1.06	0.00	0.00	0.00
30	0.00	0.00	1.15	0.10	---	0.08	0.00	0.00	0.90	0.00	0.03	0.09
31	0.00	---	0.01	0.00	---	0.64	---	0.88	---	0.36	0.00	---
Total	7.27	0.78	3.36	1.06	2.49	3.77	6.07	2.41	4.95	3.57	5.23	4.72

02095500 NORTH BUFFALO CREEK NEAR GREENSBORO, NC—Continued

