



Water-Data Report 2007

**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 mi<sup>2</sup>.

**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 (levels by U. S. Army Corps of Engineers). 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 ft<sup>3</sup>/s, from rating curve extended above 2,900 ft<sup>3</sup>/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.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	22	24	78	179	34	43	28	24	21	19	18	18
2	22	23	35	53	38	851	29	23	21	18	18	16
3	22	25	29	37	29	73	28	23	164	18	19	16
4	21	23	29	34	26	43	28	32	72	18	18	18
5	21	24	28	122	28	36	27	34	143	18	18	18
6	23	24	27	124	28	34	27	46	54	43	19	16
7	26	160	29	182	28	31	30	24	23	19	19	18
8	76	119	25	337	28	31	27	22	21	17	20	19
9	25	37	25	65	28	30	27	25	21	18	19	19
10	23	29	24	44	27	31	26	32	20	24	19	19
11	23	24	23	36	26	29	148	23	19	33	18	16
12	63	233	26	35	26	28	272	24	20	25	19	18
13	22	41	26	33	101	29	44	23	31	20	19	17
14	21	33	26	31	593	29	35	21	28	20	19	76
15	21	28	27	31	56	28	908	22	21	19	18	53
16	22	574	25	31	43	425	374	22	20	40	19	14
17	172	68	24	29	37	97	59	26	19	120	21	14
18	86	39	24	37	34	45	42	23	19	66	21	15
19	26	32	25	39	33	38	36	21	19	24	18	14
20	32	29	24	28	32	35	35	20	20	21	17	14
21	25	212	24	59	32	33	33	21	19	20	32	15
22	35	1,090	133	159	28	32	31	21	20	20	36	14
23	28	177	58	46	30	32	31	24	19	21	20	14
24	24	56	30	34	28	31	29	23	18	19	19	16
25	24	40	337	32	245	29	29	22	61	32	17	14
26	23	35	85	32	77	29	30	20	20	39	16	14
27	72	32	43	30	40	27	69	20	41	29	16	14
28	124	30	35	30	35	29	26	20	52	103	18	14
29	28	29	32	29	---	56	23	21	70	33	18	13
30	26	31	30	28	---	31	23	21	20	32	29	13
31	25	---	30	29	---	29	---	21	---	23	19	---
<b>Total</b>	1,203	3,321	1,416	2,015	1,790	2,344	2,554	744	1,116	971	616	569
<b>Mean</b>	38.8	111	45.7	65.0	63.9	75.6	85.1	24.0	37.2	31.3	19.9	19.0
<b>Max</b>	172	1,090	337	337	593	851	908	46	164	120	36	76
<b>Min</b>	21	23	23	28	26	27	23	20	18	17	16	13
<b>Cfsm</b>	1.05	2.98	1.23	1.75	1.72	2.04	2.29	0.65	1.00	0.84	0.54	0.51
<b>In.</b>	1.21	3.33	1.42	2.02	1.79	2.35	2.56	0.75	1.12	0.97	0.62	0.57

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2007<sup>a</sup>, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	43.1	44.5	56.9	69.8	81.3	78.8	66.5	52.2	51.3	51.4	43.0	50.9
<b>Max</b>	154	120	129	205	185	231	206	177	192	231	112	247
<b>(WY)</b>	(1960)	(1986)	(1973)	(1978)	(1979)	(1975)	(1987)	(1978)	(1982)	(1984)	(1984)	(1979)
<b>Min</b>	7.71	8.73	13.1	17.3	22.0	26.9	20.3	16.2	10.2	11.2	7.82	8.63
<b>(WY)</b>	(1931)	(1932)	(1934)	(1934)	(1931)	(2006)	(1942)	(1938)	(1933)	(1932)	(1932)	(1930)

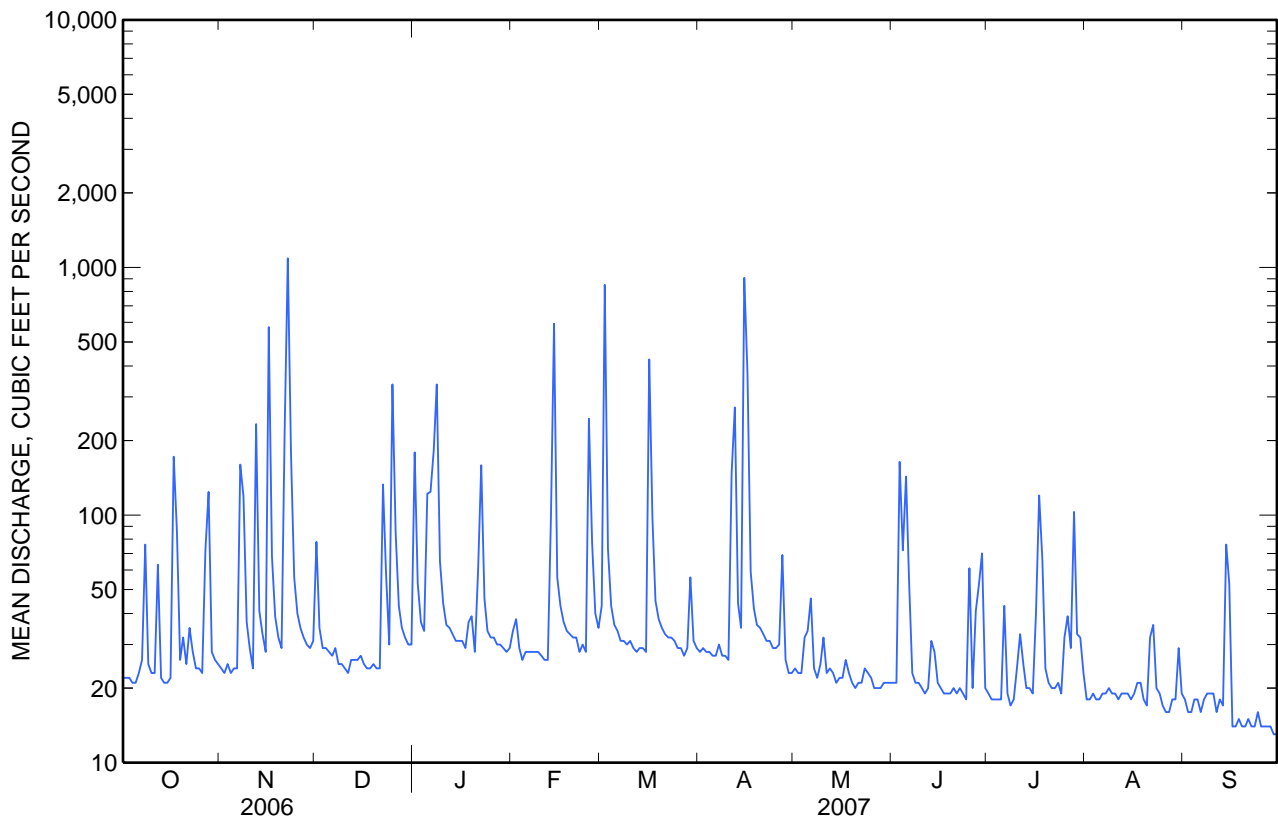
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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1928 - 2007 <sup>a</sup>	
<b>Annual total</b>	18,684		18,659			
<b>Annual mean</b>	51.2		51.1		57.2	
<b>Highest annual mean</b>					109	2003
<b>Lowest annual mean</b>					30.6	1938
<b>Highest daily mean</b>	1,090	Nov 22	1,090	Nov 22	4,400	Sep 22, 1979
<b>Lowest daily mean</b>	15	Aug 5	13	Sep 29	3.4	Aug 28, 1932
<b>Annual seven-day minimum</b>	17	Aug 1	14	Sep 24	6.2	Aug 28, 1930
<b>Maximum peak flow</b>			2,360	Nov 22	<sup>b</sup> 9,140	Sep 22, 1979
<b>Maximum peak stage</b>			10.11	Nov 22	<sup>b</sup> 20.12	Sep 22, 1979
<b>Instantaneous low flow</b>			6.2	Sep 30	1.6	Aug 28, 1932
<b>Annual runoff (cfsm)</b>	1.38		1.38		1.54	
<b>Annual runoff (inches)</b>	18.73		18.71		20.97	
<b>10 percent exceeds</b>	98		76		99	
<b>50 percent exceeds</b>	26		28		31	
<b>90 percent exceeds</b>	21		18		16	

<sup>a</sup> See Period of Record.

<sup>b</sup> See Remarks.



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## 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 2006 TO SEPTEMBER 2007**  
**DAILY SUM VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.01	0.00	0.05	0.59	0.00	0.56	0.00	0.00	0.00	0.01	0.00	0.00
2	0.00	0.01	0.00	0.00	0.00	0.97	0.00	0.00	0.00	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.20	0.72	0.00	0.00	0.00
5	0.06	0.00	0.00	0.43	0.00	0.00	0.00	0.33	0.08	0.30	0.00	0.00
6	0.05	0.00	0.00	0.01	0.00	0.00	0.05	0.00	0.00	0.02	0.00	0.00
7	0.10	0.93	0.00	0.49	0.00	0.00	0.05	0.00	0.00	0.00	0.00	0.00
8	0.38	0.26	0.00	0.46	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.32	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.41	0.00	0.00
11	0.34	0.43	0.00	0.00	0.00	0.00	1.10	0.00	0.07	0.48	0.00	0.00
12	0.02	0.46	0.00	0.00	0.00	0.00	0.38	0.10	0.01	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	1.64	0.00	0.00	0.01	0.23	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.12	0.00	0.61	0.00	0.00	0.00	0.00	0.55
15	0.00	0.00	0.00	0.00	0.00	0.00	1.85	0.00	0.00	0.00	0.00	0.00
16	0.00	1.32	0.00	0.00	0.00	1.41	0.00	0.07	0.00	1.05	0.00	0.00
17	1.04	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	1.03	0.29	0.00
18	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
20	0.09	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.02	0.00	0.00
21	0.00	2.15	0.00	0.18	0.00	0.01	0.00	0.00	0.00	0.00	0.30	0.00
22	0.16	1.13	0.84	0.21	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
23	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.18	0.00	0.08	0.15	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.13	0.00	0.00
25	0.00	0.00	0.93	0.00	0.99	0.00	0.00	0.00	0.06	0.05	0.00	0.00
26	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.64	0.00	0.00	0.00	0.00	0.00	0.33	0.00	1.00	0.00	0.00	0.00
28	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.27	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.06	0.00	0.00	0.00
30	0.00	0.14	0.00	0.00	---	0.00	0.00	0.00	0.03	0.21	---	0.00
31	0.00	---	0.03	0.00	---	0.00	---	0.00	---	0.00	0.00	---
<b>Total</b>	3.12	6.84	1.85	2.61	2.75	2.95	4.38	1.22	3.61	4.06	---	0.55

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