



Water-Data Report 2010

## 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 National Geodetic Vertical Datum of 1929. Satellite telemetry at streamgage.

REMARKS.--No estimated daily discharges. Records fair. 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 2009 TO SEPTEMBER 2010**  
**DAILY MEAN VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	16	382	32	41	60	26	35	21	45	21	28	14
2	16	45	258	33	133	36	31	21	32	21	18	14
3	15	25	193	31	297	53	29	22	33	21	17	15
4	15	19	49	30	100	33	28	22	26	20	17	16
5	19	18	99	29	908	28	31	20	25	21	21	15
6	18	16	49	29	434	26	28	20	23	21	39	15
7	16	16	36	28	87	26	25	20	33	21	17	16
8	15	16	33	31	56	25	49	19	23	20	15	15
9	15	16	486	27	51	25	158	18	22	24	15	17
10	47	54	75	27	72	25	31	17	23	39	16	15
11	17	1,180	42	27	38	26	27	14	22	21	16	17
12	34	1,870	35	26	34	52	25	15	21	22	460	16
13	36	252	141	26	42	257	25	18	121	119	28	15
14	19	67	69	26	34	133	23	18	42	897	20	15
15	51	42	45	25	44	43	23	17	64	33	17	15
16	21	33	36	25	40	33	23	127	378	25	17	15
17	17	29	31	542	30	30	23	360	87	356	15	15
18	16	26	31	73	29	28	22	142	32	76	31	14
19	15	32	109	42	27	26	21	39	26	32	23	14
20	16	26	106	33	26	25	21	27	24	57	18	14
21	16	24	75	100	26	25	31	22	23	38	16	15
22	16	23	59	170	79	29	23	27	23	20	15	16
23	15	350	50	48	38	26	22	106	22	19	15	15
24	29	78	46	36	61	25	21	48	23	19	15	13
25	22	42	948	1,390	48	24	73	35	23	18	15	14
26	15	35	200	81	32	30	26	22	23	17	15	38
27	74	68	68	46	29	33	21	20	21	69	14	112
28	295	31	48	40	27	114	21	46	22	29	14	51
29	28	28	39	31	---	856	20	200	21	18	14	73
30	20	28	34	46	---	79	20	34	21	17	14	1,580
31	19	---	55	43	---	44	---	80	---	18	15	---
<b>Total</b>	983	4,871	3,577	3,182	2,882	2,241	956	1,617	1,324	2,149	1,010	2,229
<b>Mean</b>	31.7	162	115	103	103	72.3	31.9	52.2	44.1	69.3	32.6	74.3
<b>Max</b>	295	1,870	948	1,390	908	856	158	360	378	897	460	1,580
<b>Min</b>	15	16	31	25	26	24	20	14	21	17	14	13
<b>Cfsm</b>	0.85	4.38	3.11	2.77	2.77	1.95	0.86	1.41	1.19	1.87	0.88	2.00
<b>In.</b>	0.99	4.88	3.59	3.19	2.89	2.25	0.96	1.62	1.33	2.15	1.01	2.24

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2010 <sup>a</sup>, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	42.8	45.6	57.4	69.3	80.3	78.4	66.0	51.9	52.4	51.1	43.0	50.9
<b>Max</b>	154	162	129	205	185	231	206	177	192	231	112	247
<b>(WY)</b>	(1960)	(2010)	(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)

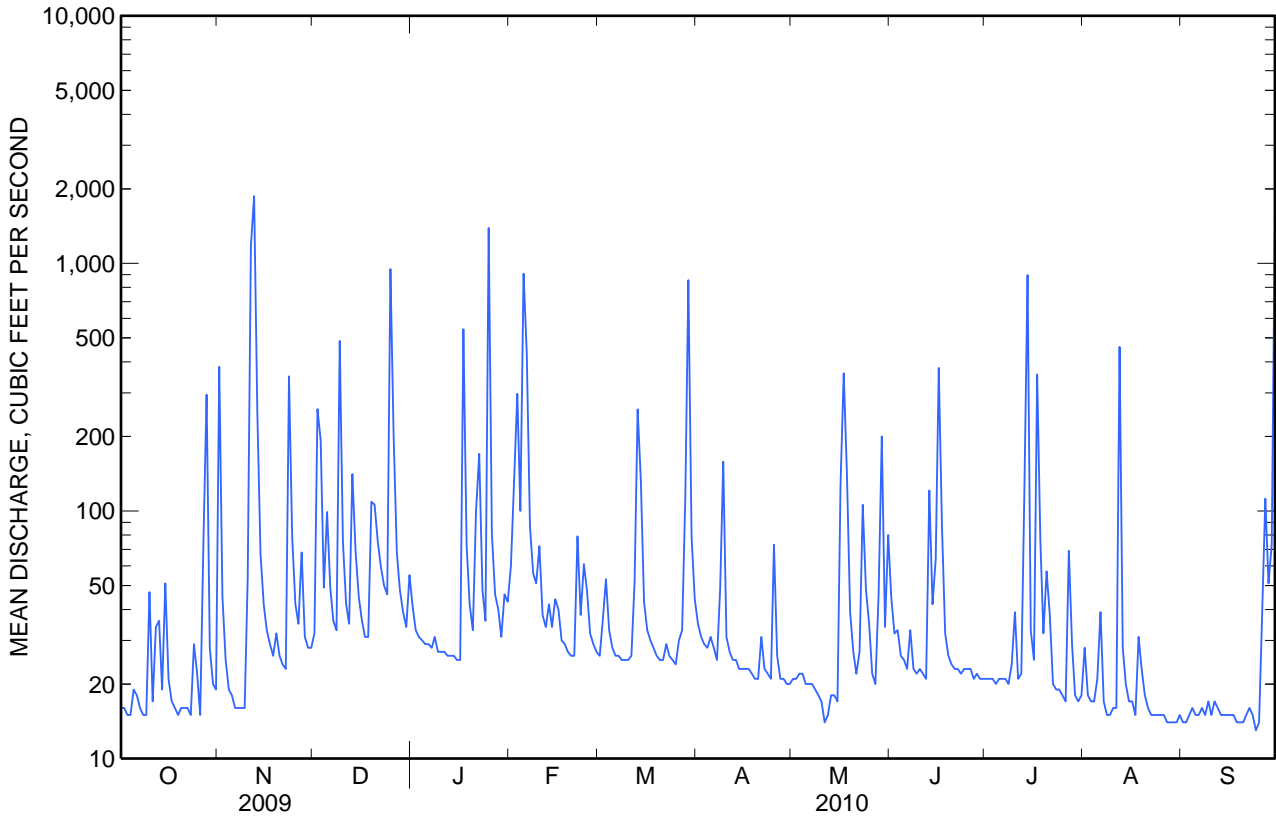
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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1928 - 2010 <sup>a</sup>	
<b>Annual total</b>	24,295.5		27,021			
<b>Annual mean</b>	66.6		74.0		57.2	
<b>Highest annual mean</b>					109	2003
<b>Lowest annual mean</b>					30.6	1938
<b>Highest daily mean</b>	1,870	Nov 12	1,870	Nov 12	4,400	Sep 22, 1979
<b>Lowest daily mean</b>	9.0	Sep 13	13	Sep 24	3.4	Aug 28, 1932
<b>Annual seven-day minimum</b>	9.5	Sep 7	14	Aug 27	6.2	Aug 28, 1930
<b>Maximum peak flow</b>			3,840	Sep 30	<sup>b</sup> 9,140	Sep 22, 1979
<b>Maximum peak stage</b>			12.92	Sep 30	<sup>b</sup> 20.12	Sep 22, 1979
<b>Instantaneous low flow</b>			9.6	Sep 24	1.6	Aug 28, 1932
<b>Annual runoff (cfsm)</b>	1.79		2.00		1.54	
<b>Annual runoff (inches)</b>	24.36		27.09		20.95	
<b>10 percent exceeds</b>	108		110		99	
<b>50 percent exceeds</b>	23		27		31	
<b>90 percent exceeds</b>	15		15		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.

**PRECIPITATION, TOTAL, INCHES**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**  
**DAILY SUM VALUES**

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	1.18	0.00	0.01	---	0.00	0.00	---	0.01	0.00	0.04	0.00
2	0.00	0.00	1.18	0.00	---	---	0.00	---	0.11	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	---	---	0.00	---	0.00	0.00	0.00	0.00
4	0.00	0.01	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.02	0.00
5	0.11	0.00	0.33	0.00	---	0.00	0.00	---	0.00	0.00	0.33	0.00
6	0.02	0.00	0.00	0.00	---	0.00	0.00	---	0.00	0.00	0.00	0.00
7	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00
8	0.00	0.00	0.53	0.01	0.00	0.00	0.55	---	0.00	0.02	0.00	0.07
9	0.00	0.00	0.52	0.00	0.17	0.00	0.02	---	0.02	0.17	0.00	0.00
10	0.19	0.73	0.00	0.00	0.02	0.03	0.00	---	0.00	0.00	0.00	0.00
11	0.00	3.16	0.00	0.00	0.00	0.09	0.00	---	0.00	0.00	0.31	0.07
12	0.35	1.53	0.00	0.00	---	0.34	0.00	---	0.00	0.11	0.03	0.02
13	0.00	0.23	0.50	0.00	---	0.60	0.00	---	0.44	3.13	0.00	0.00
14	0.14	0.00	0.01	0.00	0.00	0.05	0.00	---	0.19	0.08	0.00	0.00
15	0.27	0.00	0.00	0.00	0.18	0.00	0.00	---	0.35	0.00	0.00	0.00
16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	2.14	0.13	0.00	0.00
17	0.00	0.00	0.00	---	0.00	0.00	0.00	---	0.00	1.06	0.06	0.00
18	0.00	0.02	---	0.01	0.00	0.00	0.00	---	0.00	0.11	0.60	0.00
19	0.00	0.13	---	0.00	0.00	0.00	0.00	0.10	0.00	0.00	0.13	0.00
20	0.00	0.00	0.00	0.06	0.00	0.00	---	0.00	0.00	0.07	0.00	0.00
21	0.00	0.00	0.00	0.57	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00
22	0.00	0.17	0.00	0.02	0.28	0.01	---	0.35	0.00	0.00	0.00	0.20
23	0.03	0.89	0.00	0.00	0.02	0.01	---	0.17	0.00	0.00	0.00	0.00
24	0.12	0.00	0.00	0.58	0.22	0.00	---	0.16	0.00	0.00	0.02	0.00
25	0.00	0.01	1.54	1.20	0.01	0.00	---	0.01	0.00	0.00	0.02	0.00
26	0.00	0.31	0.02	0.00	0.00	0.16	---	0.00	0.00	0.00	0.00	0.53
27	1.17	0.01	0.00	0.00	0.00	0.01	---	0.00	0.00	0.68	0.00	0.89
28	0.20	0.00	0.00	0.00	0.00	1.24	---	0.72	0.00	0.00	0.00	0.01
29	0.00	0.00	0.00	---	---	0.53	---	0.09	0.00	0.07	0.00	0.91
30	0.00	0.11	---	---	---	0.00	---	0.00	0.00	0.00	0.00	2.42
31	0.03	---	---	---	---	0.00	---	0.19	---	0.13	0.00	---
<b>Total</b>	2.63	8.49	---	---	---	---	---	---	3.26	5.76	1.56	5.12

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