

Water-Data Report 2010

**02095000 SOUTH BUFFALO CREEK NEAR GREENSBORO, NC**

Cape Fear Basin  
Haw Subbasin

LOCATION.--Lat 36°03'36", long 79°43'33" referenced to North American Datum of 1983, Guilford County, NC, Hydrologic Unit 03030002, on left bank at upstream side of bridge on Secondary Road 3000, 3.8 mi east of Greensboro, 4.0 mi downstream from Bull Run Creek.

DRAINAGE AREA.--34 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--August 1928 to September 1958. August 1998 to current year. Prior to October 1952, published as "Buffalo Creek near Greensboro".

REVISED RECORDS.--WSP 972: 1928-40 (annual maximum discharge), 1928-33, 1935-37, 1939, (daily discharges). WSP 1303: Drainage area, 1934, 1938, 1940-42, monthly and yearly runoff. WSP 1383: 1931 (daily discharges), 1941 (annual maximum discharge).

GAGE.--Water-stage recorder. Datum of gage is 689.60 ft above North American Vertical Datum of 1988. Prior to September 1958, at datum of 696.2 ft above National Geodetic Vertical Datum of 1929. Satellite telemetry at streamgage.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Maximum discharge 10,000 ft<sup>3</sup>/s July 15, 1949, gage-height 11.54 ft, from rating curve extended above 2,000 ft<sup>3</sup>/s based on contracted-opening measurement, at site and datum then in use.

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**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	21	495	21	33	57	15	22	8.0	25	4.4	14	2.9
2	5.3	28	335	e17	171	27	19	7.9	23	4.0	7.0	2.7
3	5.0	13	207	e15	349	47	17	9.6	20	3.8	5.6	2.7
4	4.7	9.0	38	e14	87	23	16	10	11	3.6	5.0	2.6
5	6.1	7.5	89	e14	962	16	15	8.0	9.3	3.5	49	2.4
6	7.2	6.6	38	e13	472	15	14	7.9	15	3.5	36	2.7
7	4.8	6.3	25	e13	66	14	13	8.0	41	6.0	6.5	3.1
8	4.0	5.9	27	e17	41	14	37	6.6	9.2	3.7	4.8	3.9
9	3.7	5.9	602	e12	40	13	131	5.8	7.9	4.1	4.4	5.4
10	8.0	67	60	e11	56	13	17	5.8	7.8	6.1	5.2	3.6
11	5.1	1,500	31	e11	28	14	14	6.7	7.1	3.0	29	3.4
12	24	2,270	24	e12	24	50	13	7.8	9.3	3.6	597	3.6
13	28	225	122	e11	35	353	12	6.9	227	150	17	3.3
14	9.5	45	52	e11	26	54	11	6.5	36	854	8.4	2.8
15	23	23	30	e11	41	25	11	6.3	64	15	6.4	2.3
16	15	29	23	13	32	19	11	206	73	7.1	7.0	e2.2
17	6.5	18	20	646	28	17	11	456	24	329	5.1	e2.2
18	4.5	15	20	49	25	16	9.9	187	9.8	34	15	e2.1
19	4.1	18	125	25	19	14	9.7	41	7.9	15	16	e2.1
20	4.1	19	106	20	17	13	9.9	18	7.6	72	18	e2.1
21	4.2	14	70	92	16	12	32	11	6.5	25	5.9	e2.0
22	4.0	13	49	133	98	19	13	10	5.9	7.6	4.5	e1.9
23	3.7	430	37	29	32	14	9.8	131	6.8	6.0	4.3	e1.9
24	12	64	32	25	59	11	9.5	37	12	5.3	3.9	e1.8
25	19	32	952	1,640	40	11	69	19	7.9	4.7	4.2	e1.8
26	5.2	29	219	53	20	18	16	11	5.3	4.3	4.2	30
27	58	89	50	28	17	20	11	9.5	4.9	327	3.6	102
28	349	24	34	23	16	116	9.2	62	4.6	36	3.4	46
29	24	19	26	21	---	718	8.5	200	4.3	9.7	3.2	75
30	9.6	18	22	36	---	59	8.2	16	4.3	6.8	3.0	1,870
31	6.3	---	56	36	---	29	---	61	---	6.6	3.1	---
<b>Total</b>	688.6	5,538.2	3,542	3,084	2,874	1,799	599.7	1,587.3	697.4	1,964.4	899.7	2,190.5
<b>Mean</b>	22.2	185	114	99.5	103	58.0	20.0	51.2	23.2	63.4	29.0	73.0
<b>Max</b>	349	2,270	952	1,640	962	718	131	456	227	854	597	1,870
<b>Min</b>	3.7	5.9	20	11	16	11	8.2	5.8	4.3	3.0	3.0	1.8
<b>Cfsm</b>	0.65	5.43	3.36	2.93	3.02	1.71	0.59	1.51	0.68	1.86	0.85	2.15
<b>In.</b>	0.75	6.06	3.88	3.37	3.14	1.97	0.66	1.74	0.76	2.15	0.98	2.40

**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>	26.6	36.6	44.8	56.7	63.1	61.7	52.5	28.3	35.2	38.6	26.8	45.1
<b>Max</b>	142	185	130	179	135	197	210	129	166	307	131	218
<b>(WY)</b>	(2003)	(2010)	(2003)	(1937)	(1953)	(2003)	(2003)	(2003)	(2003)	(1949)	(2003)	(2000)
<b>Min</b>	1.82	3.53	6.86	7.87	14.0	14.6	8.68	6.19	4.40	2.64	2.33	2.26
<b>(WY)</b>	(1931)	(1932)	(1934)	(1942)	(1931)	(2006)	(2002)	(2002)	(1933)	(1932)	(1932)	(1930)

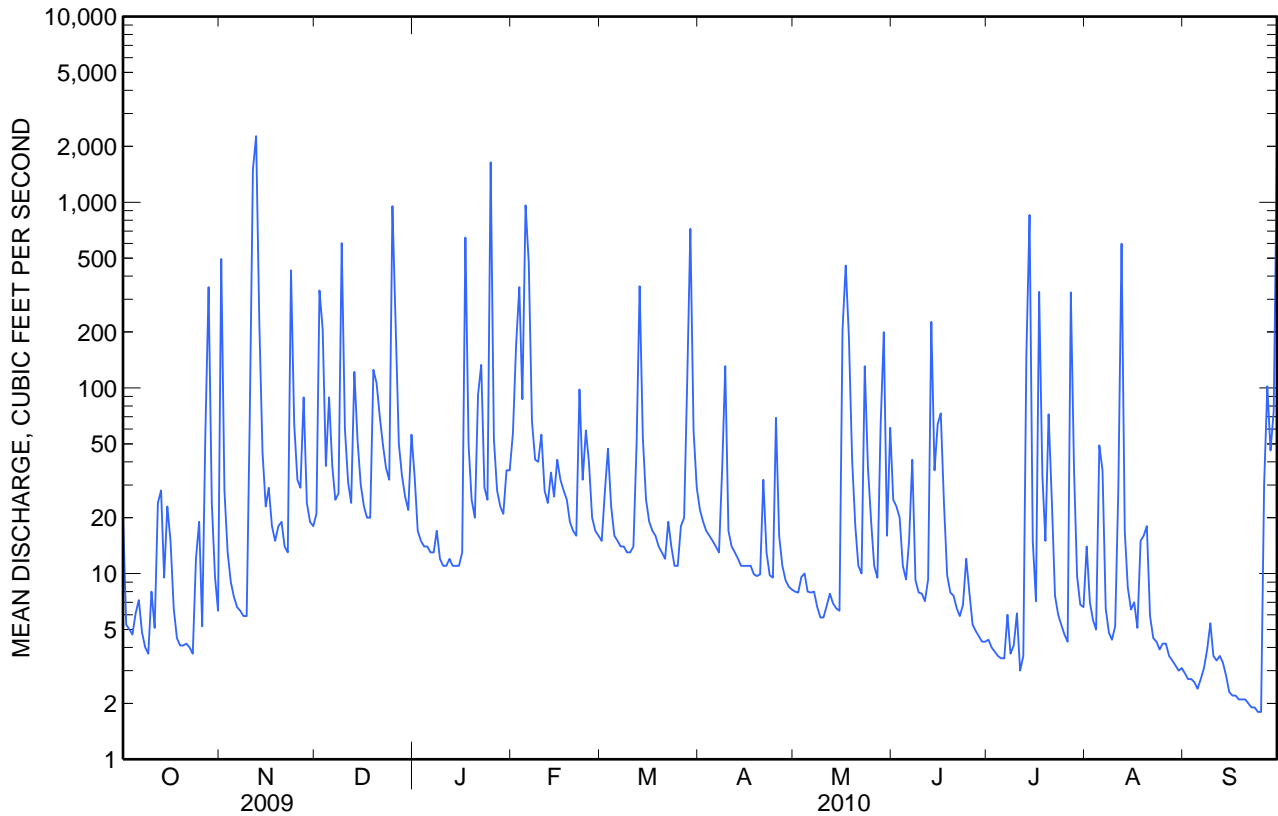
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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1928 - 2010 <sup>a</sup>	
<b>Annual total</b>	21,930.8		25,464.8			
<b>Annual mean</b>	60.1		69.8		42.7	
<b>Highest annual mean</b>					137	2003
<b>Lowest annual mean</b>					21.0	1942
<b>Highest daily mean</b>	2,270	Nov 12	2,270	Nov 12	5,460	Jul 15, 1949
<b>Lowest daily mean</b>	1.9	Sep 14	1.8	Sep 24	0.42	Aug 4, 2002
<b>Annual seven-day minimum</b>	2.2	Sep 9	1.9	Sep 19	0.57	Jul 31, 2002
<b>Maximum peak flow</b>			3,530	Nov 12	<sup>b</sup> 10,000	Jul 15, 1945
<b>Maximum peak stage</b>			14.21	Nov 12	14.37	Mar 20, 2003
<b>Instantaneous low flow</b>			Not Determined		Not Determined	
<b>Annual runoff (cfsm)</b>	1.77		2.05		1.26	
<b>Annual runoff (inches)</b>	23.99		27.86		17.06	
<b>10 percent exceeds</b>	116		110		78	
<b>50 percent exceeds</b>	13		15		14	
<b>90 percent exceeds</b>	4.1		3.8		4.4	

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

<sup>b</sup> See Remarks.



## 02095000 SOUTH 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.

**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	1.30	0.00	0.00	---	0.00	0.00	0.00	0.08	0.00	0.13	0.00
2	0.00	0.00	1.28	0.00	---	---	0.00	0.00	0.18	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	---	---	0.00	0.04	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00
5	0.12	0.00	0.33	0.00	---	0.00	0.00	0.00	0.00	0.00	0.28	0.00
6	0.02	0.00	0.00	0.00	---	0.00	0.00	0.01	0.23	0.01	0.00	0.00
7	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.58	0.04	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.07
9	0.01	0.00	0.63	0.00	0.13	0.00	0.01	0.00	0.00	0.21	0.00	0.00
10	0.09	0.75	0.00	0.00	0.01	0.02	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	3.31	0.00	0.00	0.00	0.11	0.00	0.03	0.00	0.00	0.91	0.06
12	0.34	1.93	0.00	0.00	---	0.22	0.00	0.00	0.10	0.07	0.07	0.01
13	0.01	0.13	0.42	0.00	---	0.53	0.00	0.02	0.70	2.85	0.00	0.00
14	0.12	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.05	0.13	0.00	0.00
15	0.16	0.00	0.00	0.00	0.15	0.00	0.00	0.78	0.56	0.00	0.00	0.00
16	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.11	0.09	0.00	0.00	0.00
17	0.01	0.00	0.00	1.45	0.00	0.00	0.00	2.08	0.00	1.80	0.13	0.00
18	0.00	0.02	---	0.00	0.00	0.00	0.00	0.35	0.00	0.21	0.85	0.00
19	0.00	0.16	---	0.00	0.00	0.00	0.00	0.18	0.00	0.17	0.17	0.00
20	0.00	0.00	0.00	0.04	0.00	0.00	0.01	0.00	0.00	0.03	0.00	0.00
21	0.00	0.00	0.00	0.60	0.00	0.00	0.36	0.00	0.00	0.01	0.00	0.00
22	0.00	0.17	0.00	0.03	0.49	0.02	0.00	0.06	0.00	0.00	0.00	0.00
23	0.03	0.96	0.00	0.01	0.01	0.01	0.00	0.27	0.00	0.00	0.00	0.00
24	0.13	0.01	0.00	0.56	0.23	0.00	0.14	0.14	0.00	0.00	0.00	0.00
25	0.00	0.01	1.77	1.10	0.01	0.00	0.28	0.00	0.00	0.00	0.01	0.00
26	0.00	0.24	0.02	0.00	0.00	0.25	0.00	0.00	0.00	0.00	0.00	0.58
27	1.25	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.26	0.00	0.97
28	0.19	0.00	0.00	0.00	0.00	0.95	0.00	1.63	0.00	0.00	0.00	0.01
29	0.00	0.00	0.00	---	---	0.61	0.00	0.06	0.00	0.02	0.00	1.09
30	0.00	0.06	0.07	---	---	0.00	0.00	0.00	0.00	0.00	0.00	3.34
31	0.03	---	0.15	---	---	0.00	---	0.12	---	0.14	0.00	---
<b>Total</b>	2.51	9.05	---	---	---	---	1.21	5.88	1.99	5.91	2.59	6.13

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