

Water-Data Report 2007

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 Run Creek.

DRAINAGE AREA.--34 mi².

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: 1928-30, 1932-33, 1934(M), 1935-37, 1939, 1940(M). WSP 1303: 1934, 1938, 1940-42, monthly and yearly runoff. WSP 1383: Drainage area, 1931, 1941(M).

GAGE.--Water-stage recorder. Elevation of gage is 700 ft above NGVD of 1929, from topographic map. Prior to September 1958, at datum of 696.2 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Maximum discharge 10,000 ft³/s July 15, 1949, gage-height 11.54 ft, from rating curve extended above 2,000 ft³/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 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	5.6	7.0	56	160	20	32	11	8.3	4.0	18	4.9	e17
2	4.9	6.8	21	35	22	1,060	12	7.7	3.6	7.4	4.2	e4.6
3	4.4	7.7	14	21	30	42	10	7.5	136	6.2	3.1	e3.6
4	4.2	6.9	13	17	15	33	9.9	16	68	5.4	3.2	e3.3
5	4.2	6.9	12	107	13	20	11	17	131	4.8	5.1	e3.0
6	8.6	6.1	12	120	14	17	7.5	38	39	30	3.5	e2.6
7	9.7	193	12	179	12	15	13	13	8.3	6.4	3.4	e1.6
8	64	102	10	440	12	14	9.0	8.8	6.3	5.1	3.0	e1.8
9	28	17	10	46	12	13	8.8	9.2	5.7	5.4	e2.0	2.0
10	6.7	25	10	28	11	13	8.8	9.6	4.8	120	6.1	2.0
11	5.2	10	10	21	11	12	127	8.5	4.4	42	e4.5	1.6
12	30	289	9.8	19	11	12	295	8.1	5.9	19	e4.4	e2.2
13	6.4	23	10	18	110	11	26	7.8	20	8.0	e3.3	e1.8
14	4.4	15	10	17	776	11	16	6.8	13	6.7	e3.0	e42
15	3.7	12	11	16	29	11	1,210	6.8	7.6	5.2	e5.3	e64
16	3.8	886	9.4	16	31	515	543	6.8	5.5	4.7	e3.4	e6.9
17	245	43	9.0	14	18	68	38	16	4.6	20	e4.1	e5.5
18	102	20	9.1	21	15	25	23	8.8	4.1	28	e3.5	e4.6
19	13	14	9.0	18	13	19	18	6.2	4.4	6.8	e3.3	e3.9
20	15	11	8.6	28	13	17	15	5.6	3.6	5.4	e3.5	e3.7
21	13	300	8.6	49	14	15	14	5.7	3.3	4.5	e7.4	e4.0
22	17	1,530	166	194	13	14	12	5.5	2.9	3.9	7.0	e3.5
23	13	165	56	33	11	14	11	6.5	2.9	5.7	e14	e2.9
24	6.9	39	19	23	11	13	11	9.0	5.3	5.2	e5.2	e3.0
25	5.8	26	509	20	389	13	11	5.6	67	26	e4.0	e2.7
26	5.4	23	73	17	71	12	10	4.9	6.7	13	e3.2	e2.6
27	64	18	28	16	31	12	65	4.4	248	14	e3.2	e2.6
28	162	16	20	15	21	12	14	4.2	409	149	e3.2	e2.6
29	15	17	17	13	---	55	9.7	4.0	52	22	e3.3	e2.3
30	8.9	16	16	13	---	15	8.3	3.9	11	9.7	e28	e1.9
31	8.3	---	14	12	---	14	---	4.0	---	6.6	e9.1	---
Total	888.1	3,851.4	1,192.5	1,746	1,749	2,149	2,578.0	274.2	1,287.9	614.1	164.4	205.8
Mean	28.6	128	38.5	56.3	62.5	69.3	85.9	8.85	42.9	19.8	5.30	6.86
Max	245	1,530	509	440	776	1,060	1,210	38	409	149	28	64
Min	3.7	6.1	8.6	12	11	11	7.5	3.9	2.9	3.9	2.0	1.6
Cfsm	0.84	3.78	1.13	1.66	1.84	2.04	2.53	0.26	1.26	0.58	0.16	0.20
In.	0.97	4.21	1.30	1.91	1.91	2.35	2.82	0.30	1.41	0.67	0.18	0.23

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2007 ^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	25.8	33.9	42.8	56.9	63.8	61.5	52.6	27.4	34.2	38.4	25.2	44.7
Max	142	128	130	179	135	197	210	129	166	307	131	218
(WY)	(2003)	(2007)	(2003)	(1937)	(1953)	(2003)	(2003)	(2003)	(2003)	(1949)	(2003)	(2000)
Min	1.82	3.53	6.86	7.87	14.0	14.6	8.68	6.19	4.40	2.64	2.33	2.26
(WY)	(1931)	(1932)	(1934)	(1942)	(1931)	(2006)	(2002)	(2002)	(1933)	(1932)	(1932)	(1930)

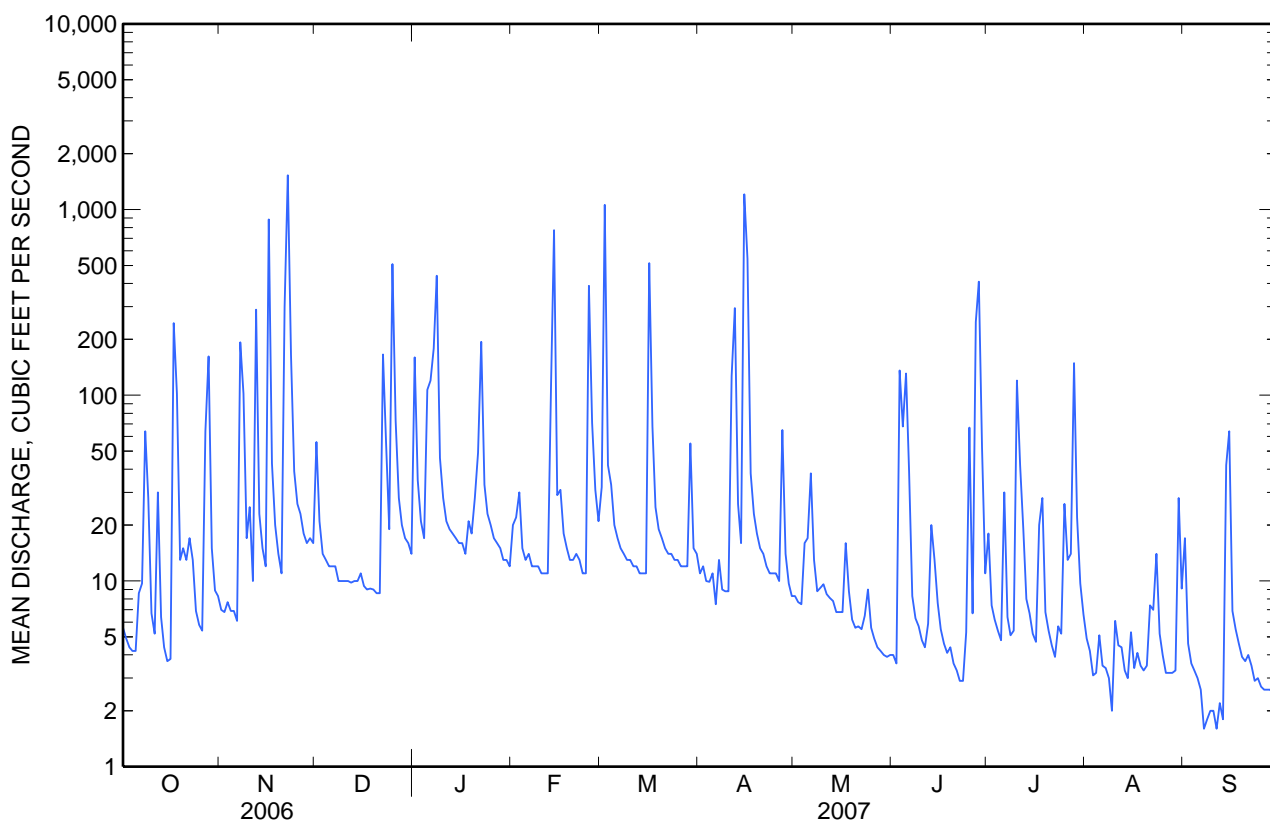
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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1928 - 2007 ^a	
Annual total	18,230.4		16,700.4			
Annual mean	49.9		45.8		42.0	
Highest annual mean					137	2003
Lowest annual mean					21.0	1942
Highest daily mean	1,530	Nov 22	1,530	Nov 22	5,460	Jul 15, 1949
Lowest daily mean	2.8	May 31	1.6	Sep 7	0.42	Aug 4, 2002
Annual seven-day minimum	4.0	Aug 23	1.9	Sep 7	0.57	Jul 31, 2002
Maximum peak flow			2,510	Nov 22	^b 10,000	Jul 15, 1945
Maximum peak stage			12.77	Nov 22	14.37	Mar 20, 2003
Instantaneous low flow			NOT DETERMINED		NOT DETERMINED	
Annual runoff (cfsm)	1.47		1.35		1.23	
Annual runoff (inches)	19.95		18.27		16.77	
10 percent exceeds	92		68		77	
50 percent exceeds	11		11		14	
90 percent exceeds	5.3		3.5		4.5	

^a See Period of Record

^b 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	0.02	0.38	0.23	0.53	0.01	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.04	0.86	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	---	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.16	0.82	0.00	0.00	0.00
5	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.15	0.25	0.07	0.01	0.00
6	0.06	0.00	0.00	0.01	0.00	0.00	0.03	0.00	0.01	0.00	0.00	0.00
7	0.12	0.86	0.00	0.42	0.00	0.00	0.04	0.00	0.00	0.00	0.00	0.00
8	0.32	0.22	0.00	0.45	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	0.06	0.00	0.00	---	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.39	0.00	0.01
11	0.16	0.39	0.00	0.00	0.00	0.00	1.03	0.00	0.03	0.04	0.00	0.00
12	0.00	0.35	0.00	0.00	0.00	0.00	0.37	0.02	0.01	0.00	0.00	---
13	0.00	0.00	0.01	0.00	1.42	0.00	0.00	0.00	0.52	0.00	0.00	---
14	0.00	0.00	0.00	0.00	0.09	0.00	0.44	0.00	0.00	0.00	0.00	---
15	0.00	0.00	0.00	0.00	0.00	0.00	1.71	0.00	0.00	0.00	0.00	0.00
16	0.00	1.36	0.00	0.00	0.00	1.33	0.00	0.09	0.00	0.19	0.00	0.00
17	1.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.57	0.03	0.00
18	0.00	0.00	0.00	0.07	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.16	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00
20	0.08	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.01	0.00	0.00
21	0.00	1.89	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.30	0.00
22	0.14	0.93	0.87	0.03	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	0.06	0.00	0.06	0.03	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.28	0.17	0.00	0.00
25	0.00	0.00	0.86	0.00	1.02	0.00	0.00	0.00	0.02	0.02	0.00	0.00
26	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
27	0.63	0.00	0.00	0.00	0.00	0.00	0.35	0.00	0.83	0.00	0.00	0.00
28	0.31	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.08	0.12	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.31	0.00	0.00	0.02	0.00	0.00	0.00
30	0.00	0.13	0.00	0.00	---	0.00	0.00	0.00	0.04	0.00	0.10	0.00
31	0.00	---	0.02	0.00	---	0.00	---	0.00	---	0.00	0.00	---
Total	2.89	6.14	1.79	2.06	2.81	3.03	3.98	0.56	---	1.65	---	---

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