

Water-Data Report 2008

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. 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 NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records 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 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	e2.2	e7.0	e5.1	34	354	8.1	131	22	64	13	25	6.4
2	e2.2	e8.2	e5.2	23	43	7.4	30	15	10	5.6	4.2	3.5
3	e2.3	e9.4	e4.9	20	43	7.5	83	12	7.8	4.3	3.8	3.1
4	e2.5	e10	e5.1	18	43	156	197	12	7.0	7.1	3.4	3.5
5	e2.3	e10	e4.9	17	29	232	544	17	6.6	103	4.1	2.7
6	e2.4	e11	e5.8	15	39	23	317	11	6.1	283	2.1	354
7	e2.6	e9.6	e5.2	15	23	146	56	15	5.6	13	2.0	14
8	e2.6	e9.6	e4.9	15	15	145	36	9.2	4.9	94	1.8	6.0
9	e2.6	e9.8	e4.5	15	13	30	28	8.9	4.6	66	1.7	4.7
10	e2.8	e8.5	4.4	21	12	18	25	7.7	4.8	42	2.4	31
11	e2.7	e7.7	5.0	34	12	15	22	19	4.5	20	6.3	49
12	e2.6	e7.3	5.3	19	13	13	21	21	4.1	5.6	3.2	15
13	e2.5	e8.1	5.1	15	66	12	19	12	4.1	134	6.2	6.7
14	e2.6	e9.8	4.1	14	68	12	24	25	4.9	82	12	4.5
15	e2.2	e90	17	13	59	161	24	9.0	8.9	8.6	11	3.8
16	e2.7	e10	197	12	15	74	16	26	8.8	5.2	9.3	631
17	e2.5	e6.3	25	113	12	19	14	9.8	9.4	4.2	4.9	38
18	e2.8	e4.7	19	56	15	21	14	34	5.8	4.3	4.9	12
19	e152	e3.8	17	24	11	40	14	16	5.6	12	5.6	7.2
20	e48	e4.1	17	24	9.5	97	145	25	5.8	6.6	6.9	5.4
21	e78	e4.9	24	17	9.3	19	112	13	19	4.8	27	4.6
22	e46	e12	16	16	12	15	24	7.4	206	3.7	13	4.2
23	e24	e5.0	61	20	11	13	16	9.6	105	108	24	4.0
24	e65	e18	31	15	12	16	14	8.3	41	161	3.1	3.7
25	358	e4.3	55	13	17	13	12	8.0	12	12	2.1	3.8
26	1,100	e5.7	120	13	109	12	12	7.7	5.9	4.9	60	281
27	414	e5.0	38	13	21	12	122	7.6	4.5	4.0	2,110	53
28	e17	e11	84	12	10	11	655	28	5.1	3.5	336	27
29	e29	e4.9	101	12	8.6	41	111	14	6.2	3.1	20	8.7
30	e8.1	e4.9	437	16	---	23	24	21	254	4.5	9.6	6.3
31	e7.0	---	177	19	---	110	---	77	---	6.0	5.6	---
Total	2,391.2	320.6	1,505.5	683	1,104.4	1,522.0	2,862	528.2	842.0	1,229.0	2,731.2	1,597.8
Mean	77.1	10.7	48.6	22.0	38.1	49.1	95.4	17.0	28.1	39.6	88.1	53.3
Max	1,100	90	437	113	354	232	655	77	254	283	2,110	631
Min	2.2	3.8	4.1	12	8.6	7.4	12	7.4	4.1	3.1	1.7	2.7
Cfsm	2.27	0.31	1.43	0.65	1.12	1.44	2.81	0.50	0.83	1.17	2.59	1.57
In.	2.62	0.35	1.65	0.75	1.21	1.67	3.13	0.58	0.92	1.34	2.99	1.75

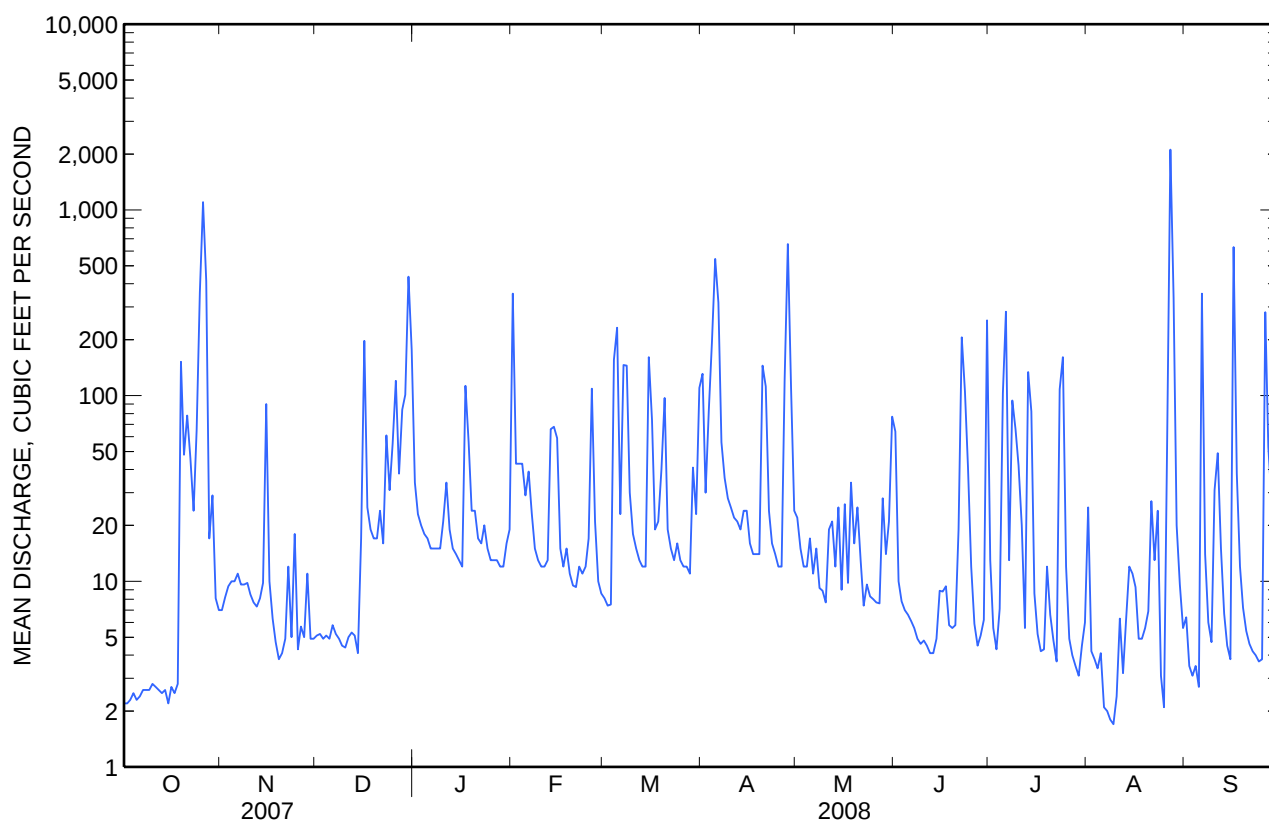
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1928 - 2008^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	27.1	33.3	43.0	56.0	63.2	61.2	53.7	27.2	34.0	38.5	26.7	44.9
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 2007		Water Year 2008		Water Years 1928 - 2008 ^a	
Annual total	14,985.7		17,316.9			
Annual mean	41.1		47.3		42.1	
Highest annual mean					137	2003
Lowest annual mean					21.0	1942
Highest daily mean	1,210	Apr 15	2,110	Aug 27	5,460	Jul 15, 1949
Lowest daily mean	1.6	Sep 7	1.7	Aug 9	0.42	Aug 4, 2002
Annual seven-day minimum	1.9	Sep 7	2.4	Oct 1	0.57	Jul 31, 2002
Maximum peak flow			3,210	Aug 27	^b 10,000	Jul 15, 1945
Maximum peak stage			14.19	Aug 27	14.37	Mar 20, 2003
Instantaneous low flow			NOT DETERMINED		NOT DETERMINED	
Annual runoff (cfs)	1.21		1.39		1.24	
Annual runoff (inches)	16.40		18.95		16.82	
10 percent exceeds	67		108		77	
50 percent exceeds	9.9		12		14	
90 percent exceeds	3.0		3.8		4.4	

^aSee Period of Record.^bSee 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; 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	0.99	0.00	0.19	0.00	0.01	0.00	0.01	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	0.01	0.00	0.21	0.00	0.59	0.00	0.00	0.00	0.00	0.00
4	0.01	0.00	0.00	0.00	0.19	0.77	0.65	0.00	0.00	0.20	0.00	0.00
5	0.00	0.00	0.00	0.00	0.01	0.00	0.19	0.09	0.00	0.62	0.00	0.04
6	0.00	0.01	0.00	0.00	0.00	0.00	0.46	0.00	0.00	0.05	0.00	1.28
7	0.00	0.00	0.00	0.00	0.00	0.65	0.01	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.69	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.29	0.00	0.00
10	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.01	0.03	0.60
11	0.00	0.00	0.00	0.04	0.00	0.00	0.00	0.25	0.00	0.00	0.00	0.13
12	0.00	0.01	0.00	0.00	0.12	0.00	0.04	0.01	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.39	0.00	0.00	0.00	0.00	0.23	0.13	0.00
14	0.00	0.01	0.00	0.00	0.22	0.00	0.01	0.00	0.04	0.01	0.01	0.00
15	0.00	0.31	0.00	0.00	0.00	0.64	0.00	0.14	0.00	0.00	0.08	0.00
16	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.19	0.00	0.00	0.00	1.53
17	0.00	0.00	0.00	0.62	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.13	0.01	0.00	0.00	0.23	0.00	0.00	0.00	0.00
19	1.13	0.04	0.00	0.00	0.00	0.26	0.16	0.01	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.14	0.66	0.00	0.00	0.00	0.00	0.00
21	0.00	0.00	0.15	0.00	0.00	0.00	0.27	0.00	0.30	0.00	0.00	0.00
22	0.00	0.12	0.00	0.05	0.11	0.00	0.01	0.00	1.72	0.00	0.00	0.00
23	0.18	0.00	0.32	0.00	0.00	0.00	0.00	0.00	0.61	0.53	0.00	0.00
24	1.14	0.00	0.00	0.00	0.08	0.05	0.01	0.01	0.00	0.01	0.00	0.00
25	1.24	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.03
26	3.44	0.07	0.32	0.00	0.41	0.00	0.00	0.00	0.00	0.00	0.81	1.08
27	0.00	0.00	0.00	0.00	0.00	0.00	0.46	0.12	0.00	0.00	4.42	0.36
28	0.00	0.00	0.56	0.00	0.00	0.00	1.12	0.24	0.00	0.00	0.01	0.04
29	0.00	0.00	0.03	0.00	0.00	0.26	0.00	0.00	0.29	0.00	0.00	0.00
30	0.00	0.00	1.26	0.10	---	0.07	0.00	0.00	0.33	0.00	0.00	0.14
31	0.00	---	0.01	0.00	---	0.63	---	0.63	---	0.35	0.00	---
Total	7.14	0.61	2.67	1.07	2.78	3.52	4.83	1.95	3.30	2.99	5.58	5.23

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