

Water-Data Report 2007

02094770 SOUTH BUFFALO CREEK AT U.S. HIGHWAY 220 AT GREENSBORO, NC

Cape Fear Basin
Haw Subbasin

LOCATION.--Lat 36°02'17", long 79°47'59" referenced to North American Datum of 1983, Guilford County, NC, Hydrologic Unit 03030002, on left bank at downstream side of bridge on U.S. Highway 220, and 0.8 mi upstream from Ryan Creek in Greensboro.

DRAINAGE AREA.--15.4 mi².

SURFACE-WATER RECORDS

PERIOD OF RECORD.--August 1998 to current year.

REVISED RECORDS.--WDR-NC-04-1: 2003(M)

GAGE.--Water-stage recorder. Elevation of gage is 730 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records poor.

02094770 SOUTH BUFFALO CREEK AT U.S. HIGHWAY 220 AT GREENSBORO, NC—Continued

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	2.9	2.8	50	92	6.0	14	5.9	3.8	2.3	10	2.6	15
2	2.7	2.5	10	17	5.4	398	5.7	3.5	2.2	3.8	2.2	2.2
3	e2.1	2.7	6.5	8.3	22	24	4.9	e3.5	62	3.3	1.5	1.7
4	2.1	2.8	5.8	6.9	e5.5	13	4.7	e6.1	69	e2.9	3.3	1.3
5	2.1	2.7	5.7	79	e4.9	8.6	5.9	6.5	73	e3.8	2.4	1.0
6	5.2	2.7	5.7	65	e4.6	7.1	3.2	23	29	e19	2.2	0.87
7	8.1	107	5.7	89	5.0	6.3	8.1	6.3	6.5	2.2	2.1	0.37
8	29	35	e4.9	151	4.7	5.9	4.4	5.0	4.6	3.0	1.1	0.49
9	24	5.2	e5.1	18	4.5	5.5	4.2	4.9	4.0	2.0	0.93	0.59
10	3.2	21	e5.1	9.6	4.5	5.4	4.2	4.8	3.2	37	2.8	0.59
11	2.9	6.4	4.7	6.7	e4.4	5.5	66	4.7	3.0	23	1.9	0.64
12	26	130	4.8	5.7	4.3	4.9	127	4.3	5.1	7.9	1.8	0.60
13	3.2	8.3	5.2	5.2	70	4.9	7.6	3.9	8.3	4.0	1.1	0.46
14	e2.5	5.2	5.0	4.8	261	5.0	7.9	3.7	5.9	3.7	1.00	60
15	e2.2	4.5	4.9	4.5	e5.7	5.1	524	3.6	5.2	2.3	2.3	24
16	2.2	367	4.8	4.5	e11	218	96	3.7	3.5	2.2	1.1	3.7
17	142	21	4.5	4.0	e8.5	37	14	11	2.9	6.0	1.5	2.7
18	43	9.1	4.3	4.6	7.4	12	9.7	4.3	2.7	18	1.1	2.0
19	6.3	6.6	4.3	2.9	e6.2	9.4	7.2	3.1	2.5	3.0	1.2	1.7
20	6.1	5.4	4.1	19	6.2	8.9	6.5	2.8	2.4	2.3	1.2	1.5
21	10	160	4.8	e13	7.9	7.6	6.2	3.0	2.0	1.9	4.1	1.5
22	15	459	79	94	5.6	7.0	5.6	2.7	2.0	1.5	3.9	1.4
23	6.0	71	24	17	5.2	7.4	5.3	4.9	1.9	2.2	11	1.1
24	3.0	19	7.9	10	5.0	7.1	5.4	5.2	6.7	2.2	1.9	0.99
25	2.8	12	210	8.0	134	6.9	5.1	3.1	42	16	1.6	0.89
26	2.5	10	34	e6.8	25	6.9	4.7	2.6	3.8	7.0	1.2	0.80
27	49	8.6	12	6.2	17	6.7	38	2.3	68	4.7	1.2	0.87
28	70	8.8	8.5	6.1	8.6	6.4	6.2	2.2	47	96	1.1	0.88
29	6.2	7.4	7.0	e5.4	---	38	5.5	2.2	35	8.8	1.1	0.73
30	3.7	9.0	6.4	e5.4	---	5.7	4.1	2.4	6.4	6.2	19	0.55
31	3.0	---	5.8	e5.3	---	8.3	---	2.5	---	3.6	4.7	---
Total	489.0	1,512.7	550.5	774.9	660.1	906.5	1,003.2	145.6	512.1	309.5	86.13	131.12
Mean	15.8	50.4	17.8	25.0	23.6	29.2	33.4	4.70	17.1	9.98	2.78	4.37
Max	142	459	210	151	261	398	524	23	73	96	19	60
Min	2.1	2.5	4.1	2.9	4.3	4.9	3.2	2.2	1.9	1.5	0.93	0.37
Cfsm	1.02	3.27	1.15	1.62	1.53	1.90	2.17	0.30	1.11	0.65	0.18	0.28
In.	1.18	3.65	1.33	1.87	1.59	2.19	2.42	0.35	1.24	0.75	0.21	0.32

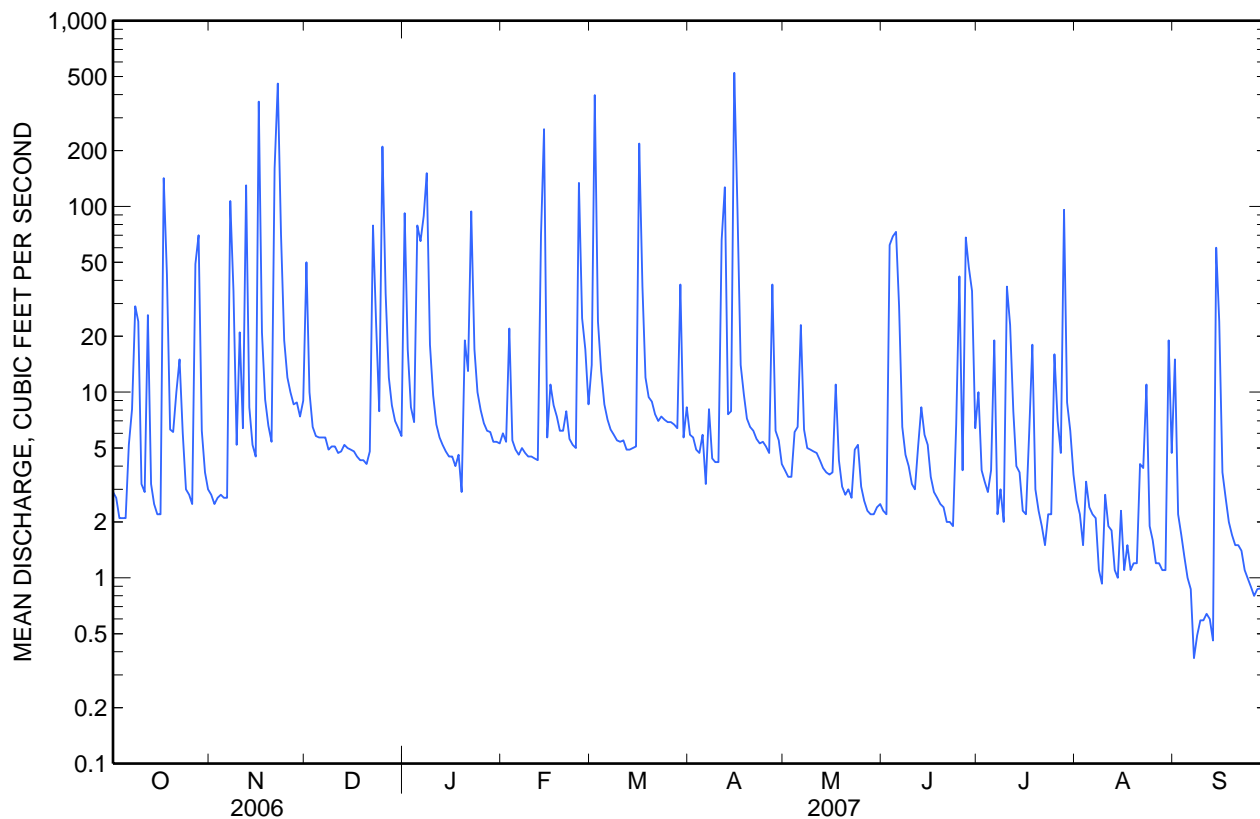
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	15.1	19.3	23.5	26.4	19.8	27.1	28.6	13.7	28.6	24.5	17.6	44.1
Max	60.3	50.4	51.5	82.6	38.1	63.3	77.0	51.7	65.0	41.1	39.2	155
(WY)	(2003)	(2007)	(2003)	(1999)	(2003)	(2003)	(2003)	(2003)	(2006)	(2003)	(2003)	(2000)
Min	3.59	3.00	5.78	8.65	8.76	6.89	4.06	4.70	3.15	9.98	2.78	1.77
(WY)	(1999)	(1999)	(2001)	(2004)	(2006)	(2006)	(2002)	(2007)	(2002)	(2007)	(2007)	(2005)

02094770 SOUTH BUFFALO CREEK AT U.S. HIGHWAY 220 AT GREENSBORO, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1998 - 2007	
Annual total	8,450.0		7,081.35			
Annual mean	23.2		19.4		24.3	
Highest annual mean					50.6	2003
Lowest annual mean					10.7	2002
Highest daily mean	512	Jul 23	524	Apr 15	1,640	Sep 2, 2000
Lowest daily mean	1.3	Aug 28	0.37	Sep 7	0.10	Aug 14, 2002
Annual seven-day minimum	1.5	Aug 23	0.53	Sep 7	0.19	Sep 13, 2001
Maximum peak flow			1,210	Mar 2	2,770	Sep 23, 2003
Maximum peak stage			11.51	Mar 2	16.44	Sep 23, 2003
Instantaneous low flow			0.19	Aug 13	0.08	Aug 14, 2002
Annual runoff (cfsm)	1.50		1.26		1.58	
Annual runoff (inches)	20.41		17.11		21.48	
10 percent exceeds	55		40		48	
50 percent exceeds	5.0		5.2		5.4	
90 percent exceeds	2.4		1.6		1.8	



02094770 SOUTH BUFFALO CREEK AT U.S. HIGHWAY 220 AT GREENSBORO, NC—Continued

CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--August 1998 to current year. Records for August 1998 to December 1999 are unpublished and available from the USGS Water Science Center, Raleigh, NC.

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	0.00	0.00	0.09	0.56	0.19	0.69	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.02	0.90	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	1.07	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.23	0.73	0.00	0.00	0.00
5	0.01	0.00	0.00	0.41	0.00	0.00	0.00	0.22	0.11	0.13	0.00	0.00
6	0.02	0.00	0.00	0.00	0.00	0.00	0.05	0.01	0.01	0.00	0.00	0.00
7	0.09	1.10	0.00	0.52	0.00	0.00	0.03	0.00	0.00	0.00	0.00	0.00
8	0.43	0.11	0.00	0.47	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	0.01	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	0.84	0.02	0.00
11	0.09	0.52	0.00	0.00	0.00	0.00	1.07	0.00	0.02	0.17	0.00	0.00
12	0.02	0.34	0.00	0.00	0.00	0.00	0.33	0.00	0.01	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	1.62	0.00	0.00	0.00	0.18	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.05	0.00	0.50	0.00	0.00	0.00	0.00	0.66
15	0.00	0.00	0.00	0.00	0.00	0.00	2.34	0.00	0.07	0.00	0.00	0.00
16	0.00	1.62	0.00	0.00	0.00	1.53	0.00	0.10	0.00	0.09	0.00	0.00
17	1.24	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.17	0.01	0.00
18	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.00	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	0.00	0.00	0.00	0.00
20	0.03	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.01	0.01	0.00	0.00
21	0.00	2.24	0.00	0.06	0.01	0.00	0.00	0.00	0.00	0.00	0.30	0.00
22	0.13	1.01	0.78	0.19	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.00
23	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.07	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.43	0.23	0.00	0.00
25	0.00	0.00	1.07	0.00	1.16	0.00	0.00	0.00	0.01	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	0.04	0.00	0.00
27	0.66	0.00	0.00	0.00	0.00	0.00	0.32	0.00	2.42	0.00	0.00	0.00
28	0.26	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.08	0.93	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.28	0.00	0.00	0.01	0.00	0.00	0.00
30	0.00	0.11	0.00	0.00	---	0.00	0.00	0.00	0.09	0.00	0.38	0.00
31	0.00	---	0.02	0.00	---	0.00	---	0.00	---	0.00	0.00	---
Total	2.98	7.05	1.96	2.42	3.06	3.44	4.64	0.60	5.25	2.73	0.72	0.66

02094770 SOUTH BUFFALO CREEK AT U.S. HIGHWAY 220 AT GREENSBORO, NC—Continued

