



Water-Data Report 2010

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 (annual maximum discharge).

GAGE.--Water-stage recorder. Datum of gage is 727.27 ft above North American Vertical Datum of 1988. Satellite telemetry at streamgage.

REMARKS.--Records fair except those for estimated daily discharges, which are poor.

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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	4.3	222	6.6	9.4	32	6.8	9.0	2.7	6.9	1.7	7.0	1.5
2	2.9	15	136	6.5	88	15	7.6	2.8	3.9	1.6	2.2	1.3
3	2.8	7.2	52	5.8	114	19	6.9	4.1	5.6	1.4	1.6	1.3
4	2.5	4.4	11	5.5	33	9.3	6.5	3.0	2.6	1.4	1.4	1.1
5	4.3	3.0	38	5.5	389	7.1	6.0	2.6	2.5	1.4	38	1.0
6	3.8	2.2	12	5.1	103	6.3	5.7	2.5	16	1.4	13	0.97
7	2.8	2.1	7.6	4.8	26	6.0	5.4	2.3	14	1.3	2.8	1.0
8	2.2	2.0	15	6.8	16	5.9	48	2.2	2.5	1.2	2.5	1.8
9	2.1	2.0	208	4.5	19	5.6	55	2.0	2.2	1.2	2.3	2.5
10	4.2	42	17	4.4	24	5.9	7.7	2.0	2.2	1.3	2.1	1.6
11	3.9	533	7.9	4.1	11	9.3	5.9	2.3	1.8	1.2	43	1.4
12	17	771	6.8	4.5	9.7	29	5.3	2.5	1.9	3.6	279	1.5
13	24	75	57	4.3	15	138	4.9	2.3	125	130	13	1.3
14	7.9	12	15	4.2	10	17	4.6	2.3	18	320	7.2	1.0
15	13	5.2	9.1	4.1	18	11	4.7	9.8	30	6.5	8.0	0.93
16	15	17	6.6	4.2	e14	9.2	4.5	118	38	4.1	6.6	0.81
17	4.0	6.7	5.6	243	e12	8.6	4.2	192	10	174	4.1	0.80
18	3.1	6.2	5.8	21	e10	7.8	4.0	71	4.3	16	6.6	0.77
19	2.6	4.9	55	11	e8.0	7.3	4.0	17	3.4	5.3	13	0.78
20	2.8	10	40	8.9	6.8	7.2	4.1	5.2	2.9	57	13	0.75
21	3.1	5.4	22	49	6.5	7.4	11	3.5	2.5	11	3.5	0.71
22	2.7	5.3	14	49	44	12	4.6	4.3	2.2	3.7	2.6	0.69
23	2.0	171	11	11	13	7.4	3.8	78	5.8	3.1	2.5	0.67
24	4.7	20	9.4	16	31	6.4	4.0	13	4.1	2.6	2.2	0.64
25	15	7.7	333	591	16	6.3	34	5.9	4.3	2.2	2.1	0.64
26	3.3	16	47	27	9.1	11	5.1	3.4	1.9	1.4	2.2	24
27	37	27	15	13	8.0	11	3.6	2.7	1.7	206	2.0	70
28	136	6.5	9.4	8.9	7.3	99	3.0	30	1.6	21	1.9	30
29	19	5.3	7.5	8.6	---	286	2.9	70	1.7	4.4	1.8	58
30	2.3	5.3	6.7	16	---	24	2.8	4.2	1.6	2.1	1.7	744
31	6.2	---	20	17	---	11	---	31	---	3.0	1.6	---
Total	356.5	2,012.4	1,207.0	1,174.1	1,093.4	812.8	278.8	694.6	321.1	992.1	490.5	953.46
Mean	11.5	67.1	38.9	37.9	39.0	26.2	9.29	22.4	10.7	32.0	15.8	31.8
Max	136	771	333	591	389	286	55	192	125	320	279	744
Min	2.0	2.0	5.6	4.1	6.5	5.6	2.8	2.0	1.6	1.2	1.4	0.64
Cfsm	0.75	4.36	2.53	2.46	2.54	1.70	0.60	1.45	0.70	2.08	1.03	2.06
In.	0.86	4.86	2.92	2.84	2.64	1.96	0.67	1.68	0.78	2.40	1.18	2.30

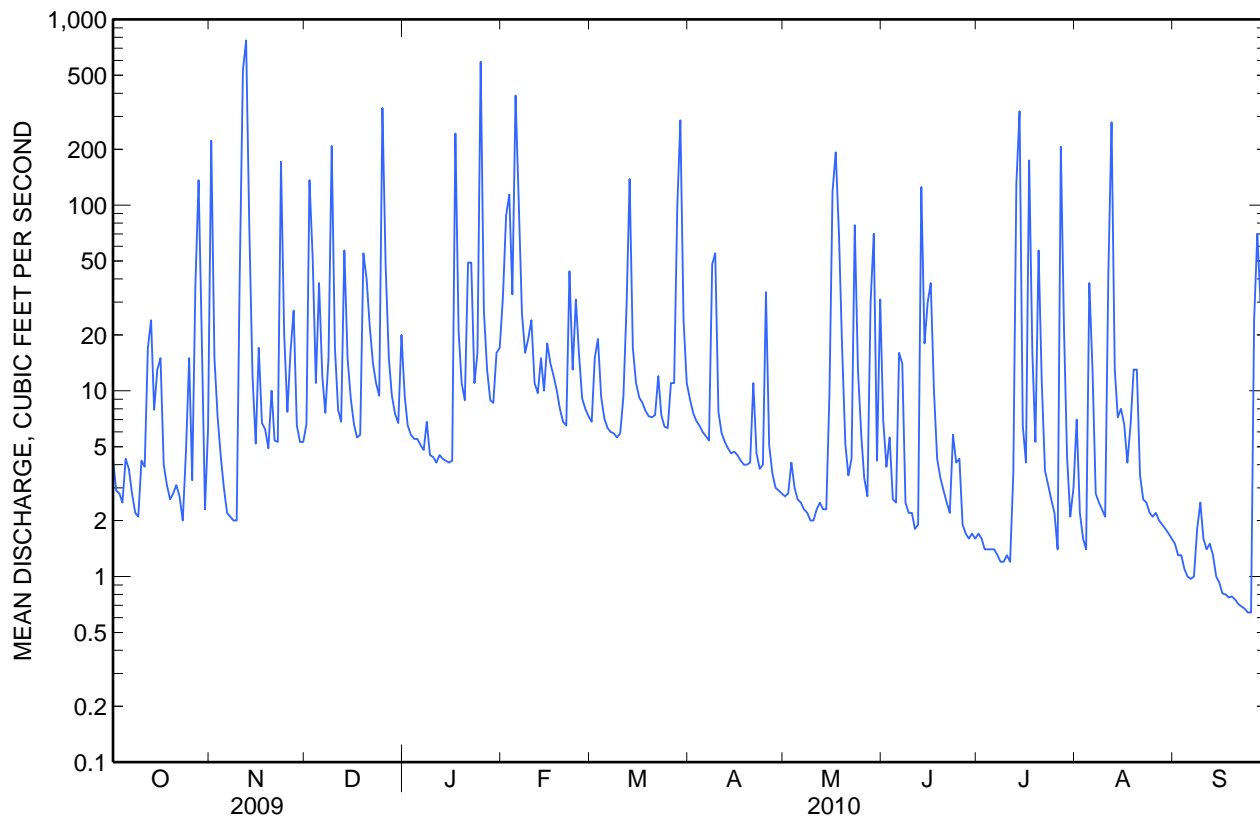
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2010, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	14.8	21.8	24.5	25.3	20.5	27.5	26.6	14.8	26.2	23.4	18.7	39.4
Max	60.3	67.1	51.5	82.6	39.1	63.3	77.0	51.7	65.0	41.1	40.2	155
(WY)	(2003)	(2010)	(2003)	(1999)	(2010)	(2003)	(2003)	(2003)	(2006)	(2003)	(2008)	(2000)
Min	3.59	3.00	5.78	8.65	8.76	6.89	4.06	4.70	3.15	8.96	2.78	1.77
(WY)	(1999)	(1999)	(2001)	(2004)	(2006)	(2006)	(2002)	(2007)	(2002)	(2009)	(2007)	(2005)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1998 - 2010	
Annual total	8,958.62		10,386.76			
Annual mean	24.5		28.5		23.8	
Highest annual mean					50.6	2003
Lowest annual mean					10.7	2002
Highest daily mean	771	Nov 12	771	Nov 12	1,640	Sep 2, 2000
Lowest daily mean	0.70	Sep 15	0.64	Sep 24	0.10	Aug 14, 2002
Annual seven-day minimum	0.86	Sep 9	0.70	Sep 19	0.19	Sep 13, 2001
Maximum peak flow			1,930	Jan 25	2,770	Sep 23, 2003
Maximum peak stage			14.28	Jan 25	16.44	Sep 23, 2003
Instantaneous low flow			0.59	Sep 24	0.08	Aug 14, 2002
Annual runoff (cfsm)	1.59		1.85		1.55	
Annual runoff (inches)	21.64		25.09		21.03	
10 percent exceeds	56		53		48	
50 percent exceeds	5.5		6.2		5.3	
90 percent exceeds	2.0		1.6		1.6	



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.

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	1.23	0.00	0.00	---	0.00	0.00	0.00	0.02	0.00	0.06	0.00
2	0.00	0.00	1.00	0.00	---	---	0.00	0.00	0.13	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	---	---	0.00	0.03	0.01	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	0.02	0.00
5	0.08	0.00	0.25	0.00	---	0.00	0.00	0.00	0.00	0.00	0.59	0.00
6	0.01	0.00	0.01	0.00	---	0.00	0.00	0.00	0.25	0.00	0.00	0.00
7	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.49	0.04	0.00	0.00	0.41	0.00	0.00	0.00	0.00	0.08
9	0.02	0.00	0.57	0.00	0.10	0.00	0.01	0.00	0.00	0.03	0.00	0.00
10	0.05	0.79	0.00	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	2.92	0.00	0.00	0.00	0.10	0.00	0.03	0.00	0.00	2.30	0.04
12	0.31	2.29	0.00	0.00	---	0.40	0.00	0.00	0.15	0.10	0.04	0.02
13	0.01	0.11	0.37	0.00	---	0.42	0.00	0.00	1.24	3.34	0.00	0.00
14	0.10	0.00	0.01	0.00	0.00	0.01	0.00	0.00	0.10	0.15	0.03	0.00
15	0.12	0.00	0.00	0.00	0.13	0.00	0.00	1.18	0.20	0.00	0.01	0.00
16	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.11	0.11	0.01	0.00	0.00
17	0.00	0.00	0.00	1.28	0.00	0.00	0.00	1.74	0.00	1.03	0.04	0.00
18	0.00	0.01	---	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.14	0.00
19	0.00	0.02	---	0.00	0.00	0.00	0.00	0.16	0.00	0.29	0.23	0.00
20	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.03	0.45	0.00	0.00
21	0.00	0.00	0.00	0.45	0.00	0.04	0.23	0.00	0.00	0.00	0.00	0.00
22	0.00	0.15	0.00	0.05	0.34	0.02	0.00	0.01	0.00	0.00	0.00	0.00
23	0.00	0.91	0.00	0.00	0.01	0.01	0.00	0.55	0.03	0.00	0.00	0.00
24	0.09	0.01	0.00	0.56	0.22	0.00	0.13	0.09	0.00	0.00	0.01	0.00
25	0.00	0.00	1.43	1.31	0.00	0.00	0.29	0.00	0.00	0.00	0.01	0.00
26	0.00	0.25	0.01	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.58
27	1.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.16	0.00	0.86
28	0.17	0.00	0.00	0.00	0.00	0.89	0.00	0.97	0.00	0.00	0.00	0.01
29	0.00	0.00	0.04	---	---	0.51	0.00	0.07	0.00	0.00	0.00	0.79
30	0.00	0.05	0.06	---	---	0.00	0.00	0.00	0.00	0.00	0.00	3.29
31	0.01	---	0.15	---	---	0.00	---	0.33	---	0.11	0.00	---
Total	2.16	8.74	---	---	---	---	1.07	5.61	2.27	6.67	3.48	5.67

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