



Water-Data Report 2007

**02094659 SOUTH BUFFALO CREEK NEAR POMONA, NC**

Cape Fear Basin  
Haw Subbasin

LOCATION.--Lat 36°02'58", long 79°51'19" referenced to North American Datum of 1983, Guilford County, NC, Hydrologic Unit 03030002, on right bank 300 ft upstream from culvert at Merritt Road, 0.7 mi south of Pomona, and 1.0 mi downstream from Southern Railway trestle.

DRAINAGE AREA.--7.33 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--June 1999 to current year.

REVISED RECORDS.--WDR NC-03-1B: 1999-02(M). WDR NC-04-1: 2003(P).

GAGE.--Water-stage recorder. Datum of gage is 771.84 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records fair, except those for estimated daily discharges, which are poor. Maximum discharge for period of record from rating curve extended above 500 ft<sup>3</sup>/s on basis of culvert computation of peak flow. Minimum discharge for period of record occurred several days in 2002. Minimum discharge for current water year also occurred August 17, September 4, 19.

## 02094659 SOUTH BUFFALO CREEK NEAR POMONA, 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	1.4	2.1	14	47	5.6	31	3.1	2.5	0.93	3.4	1.4	0.60
2	1.1	2.3	2.8	5.3	5.8	260	4.0	2.4	0.75	1.6	1.4	0.46
3	1.1	2.4	2.3	3.1	2.8	9.0	2.8	2.4	58	1.3	1.4	0.41
4	1.1	2.6	2.2	2.8	2.4	5.0	2.6	4.9	84	1.1	1.7	0.34
5	1.1	2.7	2.1	47	2.3	3.8	2.4	7.3	23	4.3	1.4	0.37
6	2.2	2.9	2.2	20	2.2	3.3	2.3	7.8	7.7	18	1.4	0.42
7	3.9	65	2.2	67	2.4	3.1	3.1	2.6	1.4	1.5	1.3	0.43
8	28	16	2.0	78	2.3	3.1	2.2	2.3	1.2	1.3	0.88	0.53
9	1.7	3.4	2.1	7.3	2.3	2.9	2.3	2.4	1.1	1.1	1.2	0.51
10	1.2	2.5	1.9	4.4	2.3	2.9	2.2	2.5	0.94	10	1.3	0.55
11	1.9	7.2	1.9	3.5	2.2	2.8	72	2.5	1.2	e8.7	1.4	0.62
12	10	64	2.0	3.2	2.2	2.6	54	2.2	2.0	e2.8	1.3	0.74
13	1.4	3.1	2.0	3.0	123	2.7	5.3	2.0	1.6	e2.6	1.3	0.72
14	1.2	2.6	2.2	2.9	97	2.7	22	2.0	1.7	2.4	0.83	79
15	1.2	2.2	2.0	2.8	5.4	2.8	363	2.1	1.5	1.4	0.47	5.9
16	1.9	233	1.9	2.9	3.7	135	28	2.5	1.3	1.4	0.33	0.97
17	88	6.9	1.9	2.7	3.1	11	6.7	4.4	1.1	9.0	0.44	0.66
18	11	3.6	2.0	7.5	2.8	5.3	4.6	1.8	0.98	8.5	0.78	0.51
19	2.5	2.9	2.0	4.8	2.7	4.9	3.8	1.4	1.0	1.9	0.75	0.38
20	5.0	2.5	2.0	2.9	3.5	3.9	3.5	1.4	0.82	1.5	0.74	0.44
21	2.0	175	2.8	35	3.0	3.4	3.1	1.4	0.76	1.4	6.3	0.51
22	6.3	214	42	22	2.4	3.5	2.9	1.4	0.70	1.2	2.6	0.53
23	2.3	19	5.8	4.8	2.4	3.8	2.8	4.4	0.70	1.9	0.84	0.46
24	2.0	5.2	2.5	3.6	2.7	3.6	2.8	1.6	10	1.9	0.82	0.51
25	1.8	3.5	139	3.1	80	3.6	2.8	1.2	14	7.5	0.68	0.54
26	1.7	3.0	9.3	2.8	7.9	3.6	2.7	1.2	0.96	6.9	0.56	0.63
27	32	2.7	4.3	2.7	4.9	3.6	22	1.0	26	2.0	0.63	0.73
28	23	3.2	2.9	2.7	3.3	3.0	3.5	0.89	4.0	38	0.63	0.63
29	2.5	2.4	2.6	2.4	---	15	2.6	0.93	29	2.7	0.63	0.38
30	2.0	3.6	2.3	2.4	---	3.5	2.5	0.95	3.4	2.2	20	0.21
31	2.0	---	2.3	2.3	---	3.1	---	0.98	---	1.7	1.1	---
<b>Total</b>	244.5	861.5	269.5	401.9	382.6	547.5	637.6	75.35	281.74	151.2	56.51	99.69
<b>Mean</b>	7.89	28.7	8.69	13.0	13.7	17.7	21.3	2.43	9.39	4.88	1.82	3.32
<b>Max</b>	88	233	139	78	123	260	363	7.8	84	38	20	79
<b>Min</b>	1.1	2.1	1.9	2.3	2.2	2.6	2.2	0.89	0.70	1.1	0.33	0.21
<b>Cfsm</b>	1.08	3.92	1.19	1.77	1.86	2.41	2.90	0.33	1.28	0.67	0.25	0.45
<b>In.</b>	1.24	4.37	1.37	2.04	1.94	2.78	3.24	0.38	1.43	0.77	0.29	0.51

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2007, BY WATER YEAR (WY)

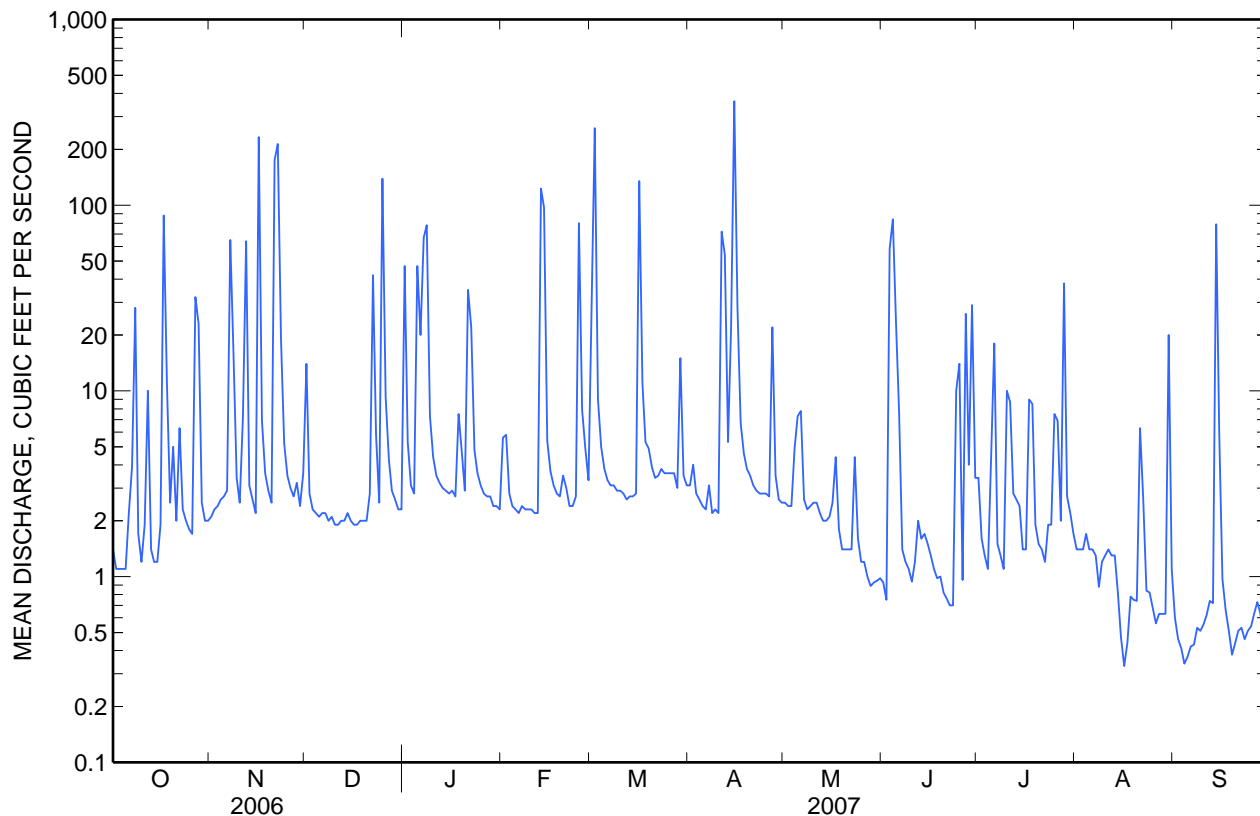
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	8.62	10.9	11.9	9.78	11.0	15.4	14.7	8.34	12.9	12.3	8.20	24.4
<b>Max</b>	28.3	28.7	24.2	17.5	21.4	41.0	46.8	32.8	39.0	28.8	19.1	53.5
<b>(WY)</b>	(2003)	(2007)	(2003)	(2002)	(2003)	(2003)	(2003)	(2003)	(2006)	(2004)	(2003)	(2004)
<b>Min</b>	1.90	1.09	2.56	3.13	4.18	3.52	2.12	2.43	2.34	4.88	1.82	1.02
<b>(WY)</b>	(2001)	(2002)	(2001)	(2004)	(2002)	(2006)	(2002)	(2007)	(2002)	(2007)	(2007)	(2005)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1999 - 2007	
Annual total	4,809.40		4,009.59			
Annual mean	13.2		11.0		12.5	
Highest annual mean					27.6	2003
Lowest annual mean					6.22	2002
Highest daily mean	275	Jun 27	363	Apr 15	740	Sep 8, 2004
Lowest daily mean	0.71	May 29	0.21	Sep 30	0.11	Jun 22, 2002
Annual seven-day minimum	0.96	May 19	0.42	Sep 2	0.13	Aug 7, 2002
Maximum peak flow			1,490	Mar 2	<sup>a</sup> 3,350	Sep 23, 2003
Maximum peak stage			7.98	Mar 2	15.45	Sep 23, 2003
Instantaneous low flow			<sup>a</sup> 0.25	Aug 16	<sup>a</sup> 0.10	Jun 22, 2002
Annual runoff (cfsm)	1.80		1.50		1.70	
Annual runoff (inches)	24.41		20.35		23.13	
10 percent exceeds	26		21		24	
50 percent exceeds	2.3		2.5		2.6	
90 percent exceeds	1.3		0.74		0.80	

<sup>a</sup> See Remarks.



## 02094659 SOUTH BUFFALO CREEK NEAR POMONA, NC—Continued

## CLIMATOLOGICAL RECORDS

PERIOD OF RECORD.--January 2000 to current year.

INSTRUMENTATION.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation collected during freezing periods may not be accurately reflected in the 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	0.04	0.56	0.21	0.72	0.01	0.00	0.00	0.01	0.00	0.00
2	0.00	0.01	0.00	0.00	0.05	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	1.04	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.15	0.66	0.00	0.00	0.00
5	0.00	0.00	0.00	0.78	0.00	0.00	0.00	0.19	0.25	0.25	0.00	0.00
6	0.09	0.00	0.00	0.01	0.00	0.00	0.03	0.01	0.01	0.01	0.00	0.00
7	0.16	1.04	0.00	0.58	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00
8	0.38	0.13	0.00	0.34	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	0.00	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	0.29	0.00	0.00
11	0.20	0.49	0.00	0.00	0.00	0.00	1.15	0.00	0.03	0.23	0.00	0.00
12	0.01	0.28	0.00	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	1.64	0.00	0.00	0.00	0.10	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.07	0.00	0.66	0.00	0.01	0.00	0.00	0.56
15	0.00	0.00	0.00	0.00	0.00	0.00	1.82	0.00	0.00	0.00	0.00	0.01
16	0.00	1.78	0.00	0.00	0.00	1.52	0.01	0.11	0.00	0.08	0.00	0.00
17	1.23	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.18	0.03	0.00
18	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00
19	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.13	0.01	0.00	0.00	0.00
20	0.10	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	1.83	0.00	0.02	0.01	0.00	0.00	0.00	0.00	0.00	0.34	0.00
22	0.15	0.96	0.73	0.19	0.00	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	0.08	0.00	0.03	0.00	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.55	0.23	0.00	0.00
25	0.00	0.00	1.12	0.00	0.89	0.00	0.00	0.00	0.02	0.07	0.00	0.00
26	0.16	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
27	0.67	0.00	0.00	0.00	0.00	0.00	0.34	0.00	0.85	0.00	0.00	0.00
28	0.15	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.13	1.29	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.33	0.00	0.00	0.04	0.03	0.00	0.00
30	0.00	0.31	0.00	0.00	---	0.00	0.00	0.04	0.12	0.01	0.26	0.00
31	0.00	---	0.02	0.00	---	0.00	---	0.00	---	0.00	0.00	---
<b>Total</b>	3.30	6.83	1.91	2.73	2.87	3.48	4.38	0.72	3.83	2.73	0.64	0.57

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