

Water-Data Report 2008

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 bridge.

DRAINAGE AREA.--7.33 mi².

SURFACE-WATER RECORDS

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

REVISED RECORDS.--WDR NC-03-1B: 1999-02 (maximum discharge). WDR NC-04-1: 2003 (maximum gage height).

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

REMARKS.--Records poor. Maximum discharge for period of record from rating curve extended above 500 ft³/s on basis of culvert computation of peak flow. Minimum discharge for period of record occurred several days in 2002.

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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	0.11	1.5	e2.0	e6.0	93	e1.5	e30	3.0	2.7	0.91	e11	e0.86
2	0.10	1.9	e1.1	e4.5	6.1	e1.4	e1.9	2.4	0.46	0.37	e1.6	e0.69
3	0.13	e2.6	e1.2	e4.3	3.1	e1.3	e38	2.1	e0.30	0.22	e1.7	e0.60
4	0.08	e3.2	e1.2	e4.0	19	85	e72	3.4	e0.26	13	e2.1	e0.69
5	0.12	e3.3	e1.4	e3.8	6.3	33	e141	e3.0	e0.26	56	e0.73	e0.50
6	0.20	e3.6	e1.2	e3.7	2.9	4.7	e86	1.7	e0.20	26	e0.35	e70
7	0.19	e3.3	e1.1	e3.4	2.6	43	9.3	e5.9	e0.28	0.87	e0.32	e1.5
8	0.21	e3.3	e1.0	e3.2	2.1	63	4.6	1.6	e0.18	8.7	e0.32	e0.68
9	0.23	e3.2	e1.0	e3.0	1.9	7.3	3.3	4.5	e0.15	7.4	e0.35	e0.40
10	0.25	e3.0	e0.90	e5.0	e1.7	5.4	2.8	1.6	e0.25	1.9	e1.1	e3.0
11	0.24	e2.6	e1.1	e10	e1.6	3.6	2.5	e8.7	e0.13	0.36	e4.5	e10
12	0.21	e2.5	e1.2	e2.8	e2.5	3.2	2.6	e3.8	e0.11	0.24	0.35	e2.2
13	0.17	e3.0	e1.0	e1.6	e15	3.1	2.4	e9.0	e0.14	42	2.7	e1.0
14	0.15	e3.3	e0.90	e1.3	19	3.4	3.1	e5.2	e0.30	3.6	e4.3	e0.59
15	0.12	e49	e7.0	e1.2	4.2	47	3.1	1.6	e0.60	0.51	e1.4	e0.30
16	0.15	e2.4	e35	e1.1	2.8	8.4	2.3	14	e0.17	0.25	e1.0	e140
17	0.13	e1.4	e4.0	e43	2.6	3.1	e2.1	1.8	e0.20	e0.21	e0.55	e4.4
18	0.11	e1.0	e2.8	e7.0	5.4	2.2	e2.0	17	e0.08	e0.43	e0.55	e1.4
19	30	e1.0	e2.6	e3.0	3.1	16	e2.1	e2.5	e0.07	e1.0	e0.80	e0.74
20	1.5	e1.2	e2.5	e2.0	e1.7	24	60	e12	e0.07	e0.32	e0.92	e0.74
21	e1.0	e1.6	e6.1	e1.0	e1.6	2.3	21	e1.1	e30	e1.4	e4.2	e0.85
22	0.60	e5.2	e2.5	e2.3	e3.5	1.9	4.2	e1.3	e27	0.09	e2.5	e0.74
23	e0.60	e1.0	e21	e3.0	e2.5	1.6	2.8	e1.9	e40	65	e12	e0.62
24	9.8	e8.9	e2.5	e1.7	e2.8	3.8	2.3	e0.80	2.0	e17	e0.49	e0.51
25	e60	e1.3	e6.4	e1.3	e5.0	1.7	2.2	e0.77	0.69	e5.3	e0.30	e0.97
26	261	e2.7	e44	e1.2	39	e1.00	2.0	e0.73	0.54	e1.3	e37	99
27	21	e0.70	e9.5	e1.2	4.9	e0.86	19	e0.70	0.50	e1.0	761	15
28	2.9	e4.1	e40	e1.0	e2.0	e0.80	129	e3.0	0.58	e0.85	e15	2.0
29	e6.0	e0.64	e12	e2.0	e1.8	e15	15	e0.80	11	e0.70	e4.4	0.98
30	1.5	e0.87	e124	e4.0	---	e2.8	4.3	e1.0	109	e0.52	e1.9	0.83
31	1.3	---	e13	e1.2	---	e20	---	13	---	e4.1	e1.0	---
Total	400.10	123.31	351.20	133.8	259.7	411.36	672.9	129.90	228.22	261.55	876.43	361.79
Mean	12.9	4.11	11.3	4.32	8.96	13.3	22.4	4.19	7.61	8.44	28.3	12.1
Max	261	49	124	43	93	85	141	17	109	65	761	140
Min	0.08	0.64	0.90	1.0	1.6	0.80	1.9	0.70	0.07	0.09	0.30	0.30
Cfsm	1.76	0.56	1.55	0.59	1.22	1.81	3.06	0.57	1.04	1.15	3.86	1.65
In.	2.03	0.63	1.78	0.68	1.32	2.09	3.41	0.66	1.16	1.33	4.45	1.84

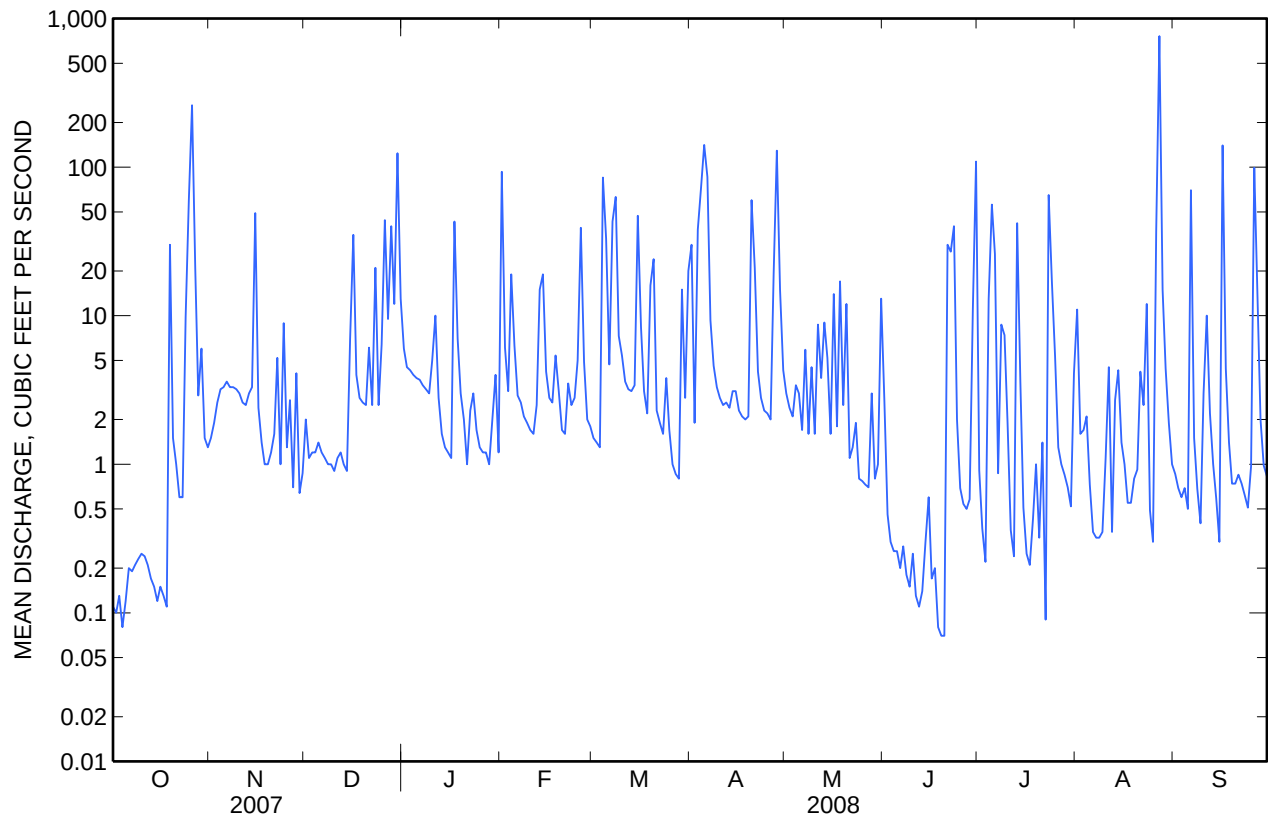
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	9.09	10.1	11.8	9.17	10.7	15.1	15.6	7.88	12.4	11.9	10.2	23.2
Max	28.3	28.7	24.2	17.5	21.4	41.0	46.8	32.8	39.0	28.8	28.3	53.5
(WY)	(2003)	(2007)	(2003)	(2002)	(2003)	(2003)	(2003)	(2003)	(2006)	(2004)	(2008)	(2004)
Min	1.90	1.09	2.56	3.13	4.18	3.52	2.12	2.43	2.34	4.88	1.82	1.02
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(2006)	(2002)	(2007)	(2002)	(2007)	(2007)	(2005)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1999 - 2008	
Annual total	3,508.70		4,210.26			
Annual mean	9.61		11.5		12.4	
Highest annual mean					27.6	2003
Lowest annual mean					6.22	2002
Highest daily mean	363	Apr 15	761	Aug 27	761	Aug 27, 2008
Lowest daily mean	0.08	Oct 4	0.07	Jun 19	0.07	Jun 19, 2008
Annual seven-day minimum	0.13	Oct 1	0.13	Oct 1	0.13	Aug 7, 2002
Maximum peak flow			3,030	Aug 27	^a 3,350	Sep 23, 2003
Maximum peak stage			14.60	Aug 27	15.45	Sep 23, 2003
Instantaneous low flow					^a 0.10	Jun 22, 2002
Annual runoff (cfs)	1.31		1.57		1.69	
Annual runoff (inches)	17.81		21.37		22.93	
10 percent exceeds	20		25		24	
50 percent exceeds	2.4		2.1		2.5	
90 percent exceeds	0.52		0.26		0.73	

^aSee Remarks.

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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 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	1.10	0.00	0.28	0.00	0.02	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	0.08	0.00
3	0.00	0.00	0.02	0.00	0.06	0.00	0.65	0.00	0.00	0.00	0.00	0.00
4	0.01	0.00	0.00	0.00	0.22	1.00	0.86	0.00	0.00	0.20	0.00	0.00
5	0.00	0.00	0.00	0.00	0.01	0.00	0.23	0.03	0.00	1.05	0.00	0.03
6	0.00	0.01	0.00	0.00	0.00	0.00	0.40	0.00	0.00	0.11	0.00	1.54
7	0.00	0.00	0.00	0.00	0.00	0.49	0.01	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.45	0.00	0.00	0.00	0.48	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.13	0.00	0.00
10	0.00	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.01	0.02	0.17
11	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.44
12	0.00	0.00	0.00	0.00	0.15	0.00	0.03	0.00	0.00	0.00	0.00	0.01
13	0.00	0.01	0.01	0.00	0.43	0.00	0.00	0.00	0.00	0.81	0.15	0.00
14	0.00	0.00	0.00	0.00	0.23	0.00	0.12	0.00	0.04	0.02	0.00	0.00
15	0.00	0.61	0.70	0.00	0.00	0.73	0.00	0.06	0.00	0.00	0.00	0.00
16	0.00	0.00	0.21	0.00	0.00	0.00	0.00	0.25	0.00	0.00	0.00	2.17
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	0.10	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00
19	0.66	0.03	0.01	0.00	0.00	0.25	0.13	0.00	0.00	0.06	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.20	0.57	0.00	0.00	0.00	0.47	0.00
21	0.00	0.00	0.15	0.00	0.00	0.00	0.22	0.00	1.17	0.00	0.01	0.00
22	0.00	0.18	0.00	0.09	0.04	0.00	0.01	0.00	0.60	0.00	0.00	0.00
23	0.05	0.00	0.35	0.00	0.00	0.00	0.00	0.00	0.13	1.72	0.00	0.00
24	0.31	0.00	0.00	0.00	0.09	0.09	0.00	0.00	0.00	0.01	0.00	0.04
25	1.49	0.06	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.11	0.08
26	3.05	0.03	0.55	0.00	0.35	0.00	0.00	0.00	0.00	0.00	1.04	1.43
27	0.01	0.00	0.00	0.00	0.00	0.00	0.39	0.05	0.00	0.00	5.57	0.52
28	0.00	0.00	0.56	0.00	0.00	0.00	1.02	0.25	0.00	0.00	0.04	0.00
29	0.00	0.01	0.04	0.00	0.00	0.27	0.01	0.00	0.56	0.00	0.00	0.00
30	0.00	0.00	1.15	0.08	---	0.07	0.00	0.00	0.75	0.00	0.00	0.05
31	0.00	---	0.02	0.01	---	0.52	---	0.30	---	0.28	0.00	---
Total	5.58	0.94	3.77	1.13	2.73	4.07	4.93	1.55	3.27	4.88	7.50	6.48

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