



Water-Data Report 2010

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 (annual maximum discharge). WDR NC-04-1: 2003(annual maximum gage height).

GAGE.--Water-stage recorder. Datum of gage is 771.84 ft above National Geodetic Vertical Datum of 1929. Satellite telemetry at streamgage.

REMARKS.--Records fair except those for estimated daily discharges, which are 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. Minimum discharge for current water year also occurred September 5, 14, 15, 16.

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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	0.90	135	4.1	4.8	23	2.5	4.5	1.8	3.2	0.86	5.4	0.59
2	0.86	4.1	91	3.8	65	11	3.8	1.8	2.2	0.80	2.1	0.45
3	0.79	2.1	23	3.2	65	9.4	3.5	3.4	3.6	0.76	1.5	0.38
4	0.66	1.6	5.7	3.1	19	3.8	3.3	1.9	1.6	e0.73	1.5	0.32
5	1.9	1.5	27	3.0	229	2.8	3.0	1.7	1.5	e0.73	23	0.31
6	0.94	1.5	6.1	3.0	55	2.5	2.9	1.6	15	e0.72	6.4	0.33
7	0.82	1.6	4.1	3.1	15	2.4	2.7	1.5	4.5	e0.69	1.8	0.50
8	0.69	1.6	16	4.0	9.0	2.3	44	1.4	1.4	e0.66	0.99	0.86
9	1.3	1.5	121	2.8	15	2.3	30	1.2	1.2	e0.61	0.88	1.2
10	13	34	10	2.7	12	2.4	4.0	1.2	1.2	e0.67	0.83	0.81
11	1.0	295	5.0	2.7	6.2	9.4	3.4	1.6	1.1	e0.62	102	0.43
12	15	439	4.0	2.7	5.1	19	2.9	1.6	1.0	4.4	136	0.90
13	3.2	43	45	2.7	9.1	80	2.6	1.4	76	195	6.2	0.41
14	4.1	8.6	8.8	2.6	5.0	7.6	2.3	1.4	14	75	2.1	0.30
15	14	5.1	5.3	2.6	12	4.5	2.5	21	16	3.2	3.5	0.26
16	1.8	3.8	3.9	2.6	9.3	3.1	2.3	62	29	2.1	1.7	0.23
17	1.1	3.2	3.5	135	12	2.7	2.1	107	4.3	95	1.3	0.32
18	0.88	3.5	3.7	9.1	9.5	2.5	2.1	42	1.8	7.1	3.5	0.29
19	0.82	4.9	43	5.2	3.4	2.3	2.0	8.5	1.4	2.9	11	e0.31
20	0.84	3.1	28	4.4	2.8	2.2	2.1	2.6	1.3	30	6.6	e0.30
21	0.84	2.7	13	36	2.7	3.0	5.4	1.9	1.1	4.4	1.7	e0.30
22	0.81	2.6	8.0	22	28	6.6	2.1	4.8	1.0	1.7	1.2	e0.30
23	1.1	109	6.4	5.6	4.9	2.4	2.0	45	3.3	1.4	1.1	0.31
24	10	10	5.7	29	22	2.1	2.5	4.7	1.4	1.2	1.1	0.31
25	1.5	5.5	185	423	6.2	2.3	25	3.2	0.90	0.91	1.1	0.28
26	0.88	16	22	13	3.4	9.2	3.0	2.0	0.90	0.79	1.1	21
27	60	12	8.0	7.1	3.0	4.0	2.2	1.7	0.76	127	0.85	45
28	49	4.1	5.4	5.4	2.8	118	1.9	21	0.78	8.7	0.82	12
29	2.2	3.4	4.3	6.2	---	143	1.8	33	0.89	2.7	0.73	50
30	1.6	4.4	3.9	11	---	14	1.8	2.2	0.80	1.6	0.73	482
31	1.6	---	13	13	---	6.1	---	16	---	3.7	0.56	---
Total	194.13	1,163.4	732.9	774.4	654.4	485.4	173.7	402.1	193.13	576.65	329.29	621.00
Mean	6.26	38.8	23.6	25.0	23.4	15.7	5.79	13.0	6.44	18.6	10.6	20.7
Max	60	439	185	423	229	143	44	107	76	195	136	482
Min	0.66	1.5	3.5	2.6	2.7	2.1	1.8	1.2	0.76	0.61	0.56	0.23
Cfsm	0.85	5.29	3.23	3.41	3.19	2.14	0.79	1.77	0.88	2.54	1.45	2.82
In.	0.99	5.90	3.72	3.93	3.32	2.46	0.88	2.04	0.98	2.93	1.67	3.15

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2010, BY WATER YEAR (WY)

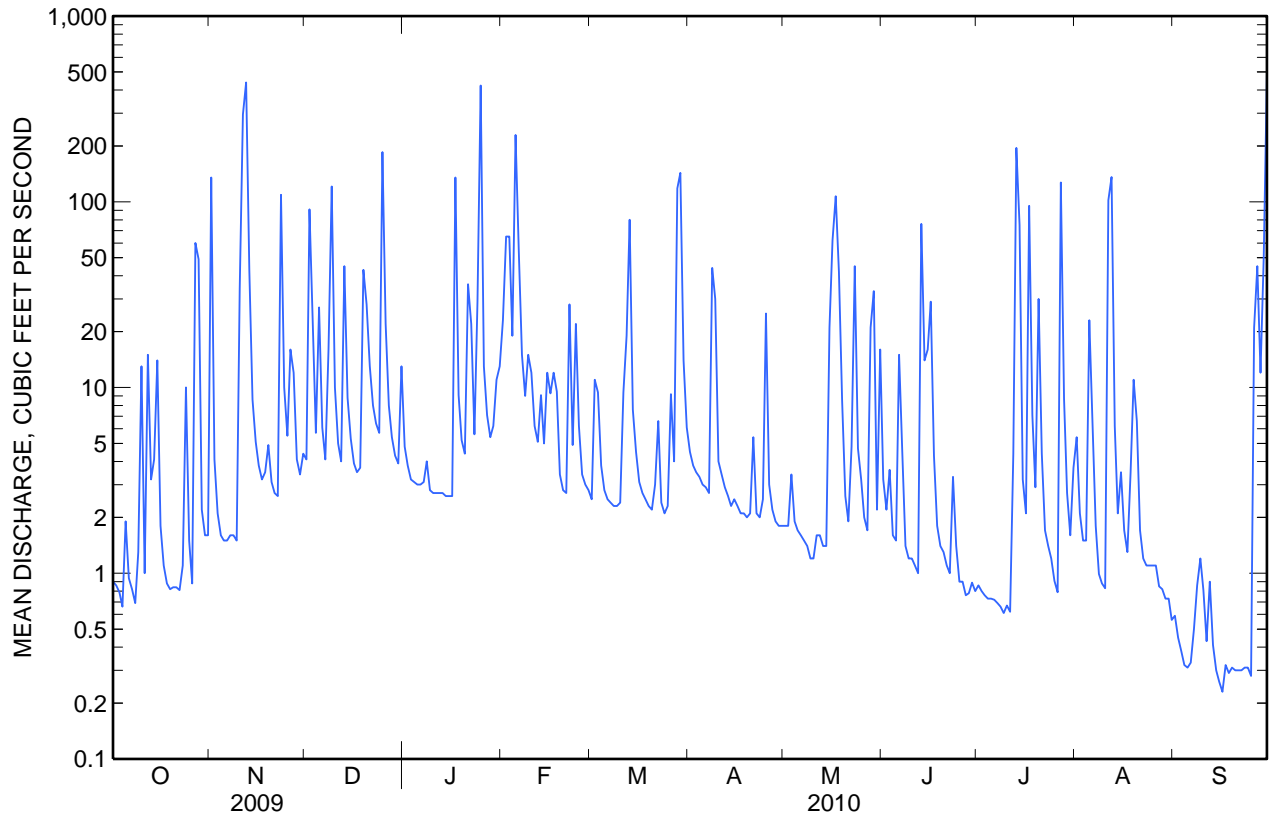
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	8.26	12.4	12.8	10.7	11.5	15.8	14.2	9.04	12.4	12.0	9.91	21.7
Max	28.3	38.8	24.2	25.0	23.4	41.0	46.8	32.8	39.0	28.8	28.3	53.5
(WY)	(2003)	(2010)	(2003)	(2010)	(2010)	(2003)	(2003)	(2003)	(2006)	(2004)	(2008)	(2004)
Min	1.90	1.09	2.56	3.13	4.18	3.52	2.12	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 2009		Water Year 2010		Water Years 1999 - 2010	
Annual total	5,177.71		6,300.50			
Annual mean	14.2		17.3		12.6	
Highest annual mean					27.6	2003
Lowest annual mean					6.22	2002
Highest daily mean	439	Nov 12	482	Sep 30	761	Aug 27, 2008
Lowest daily mean	0.31	Sep 14	0.23	Sep 16	0.07	Jun 19, 2008
Annual seven-day minimum	0.37	Sep 9	0.29	Sep 14	0.13	Aug 7, 2002
Maximum peak flow			2,310	Jan 25	^a 3,350	Sep 23, 2003
Maximum peak stage			12.53	Jan 25	15.45	Sep 23, 2003
Instantaneous low flow			^a 0.19	Sep 4	^a 0.10	Jun 22, 2002
Annual runoff (cfsm)	1.94		2.35		1.72	
Annual runoff (inches)	26.28		31.98		23.38	
10 percent exceeds	39		38		26	
50 percent exceeds	2.6		3.0		2.5	
90 percent exceeds	0.95		0.77		0.73	

^a See Remarks.



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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.

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	1.51	0.00	0.01	---	0.00	0.00	0.00	0.02	0.00	0.10	0.00
2	0.00	0.01	1.11	0.00	---	---	0.00	0.00	0.08	0.00	0.00	0.00
3	0.00	0.00	0.01	0.00	---	---	0.00	0.09	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	0.01	0.00
5	0.11	0.00	0.35	0.00	---	0.00	0.00	0.00	0.00	0.00	0.58	0.00
6	0.01	0.00	0.01	0.00	---	0.00	0.00	0.00	0.35	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	0.56	0.04	0.00	0.00	0.79	0.00	0.00	0.00	0.00	0.08
9	0.01	0.00	0.63	0.00	0.14	0.00	0.02	0.00	0.00	0.02	0.00	0.00
10	0.20	0.81	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.00	0.00	0.00
11	0.00	2.96	0.00	0.00	0.00	0.15	0.00	0.04	0.00	0.00	2.13	0.05
12	0.32	2.93	0.00	0.00	---	0.53	0.00	0.00	0.00	0.14	0.04	0.02
13	0.00	0.17	0.55	0.00	---	0.39	0.00	0.00	1.09	3.14	0.00	0.00
14	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.18	0.12	0.00	0.00
15	0.24	0.00	0.01	0.00	0.13	0.00	0.00	0.99	0.26	0.00	0.07	0.00
16	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.12	0.15	0.00	0.00	0.00
17	0.01	0.00	0.00	1.42	0.00	0.00	0.00	1.44	0.00	1.68	0.01	0.00
18	0.00	0.03	---	0.00	0.00	0.00	0.00	0.20	0.00	0.01	0.01	0.00
19	0.00	0.09	---	0.00	0.00	0.00	0.00	0.13	0.00	0.01	0.45	0.00
20	0.00	0.00	0.00	0.04	0.00	0.00	0.03	0.00	0.00	0.52	0.00	0.00
21	0.00	0.00	0.00	0.56	0.00	0.05	0.16	0.00	0.00	0.00	0.00	0.00
22	0.00	0.18	0.00	0.03	0.36	0.04	0.00	0.11	0.00	0.00	0.00	0.00
23	0.00	1.09	0.00	0.00	0.01	0.02	0.00	0.85	0.20	0.01	0.00	0.00
24	0.24	0.00	0.00	0.86	0.24	0.00	0.12	0.04	0.00	0.00	0.00	0.00
25	0.00	0.01	1.47	1.60	0.00	0.00	0.30	0.00	0.00	0.00	0.02	0.00
26	0.00	0.33	0.02	0.00	0.00	0.15	0.00	0.00	0.00	0.00	0.00	0.57
27	1.34	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	1.98	0.00	0.88
28	0.11	0.00	0.01	0.00	0.00	1.64	0.00	1.07	0.00	0.00	0.00	0.02
29	0.00	0.00	0.00	---	---	0.52	0.00	0.08	0.00	0.00	0.00	1.23
30	0.00	0.05	0.04	---	---	0.00	0.00	0.00	0.00	0.00	0.00	3.60
31	0.04	---	0.15	---	---	0.00	---	0.30	---	0.16	0.00	---
Total	2.76	10.17	---	---	---	---	1.43	5.46	2.34	7.79	3.42	6.45

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