

02094659 SOUTH BUFFALO CREEK NEAR POMONA, NC

LOCATION.--Lat 36°02'58", long 79°51'19", Guilford County, Hydrologic Unit 03030002, on right bank 300 ft upstream of culvert under Merritt Road, 0.7 mi south of post office at Pomona, and 1.0 mi downstream of South Railway trestle.

DRAINAGE AREA.--7.33 mi².

WATER-DISCHARGE 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 ft³/s on basis of culvert computation of peak flow. Minimum discharge for period of record occurred several days in 2002.

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.5	e1.4	12	e2.7	4.3	9.6	3.7	38	2.2	1.4	3.6	0.64
2	6.2	e1.7	3.0	e2.7	4.0	4.8	17	3.3	49	1.2	2.0	0.60
3	3.6	e1.5	2.4	e2.7	55	3.7	4.3	2.4	15	4.1	1.7	0.51
4	2.4	35	2.2	e2.7	8.8	3.3	3.4	2.2	3.2	21	1.5	0.53
5	2.2	2.8	2.3	e2.8	5.2	3.1	3.2	2.2	1.9	3.9	1.4	0.49
6	1.8	1.7	2.1	e2.7	3.6	2.8	3.1	18	1.7	1.8	1.3	0.42
7	1.8	1.5	7.5	e2.6	3.5	2.7	20	2.9	10	37	1.2	0.41
8	1.7	1.5	2.6	e2.7	3.2	34	43	2.2	23	5.7	8.3	0.52
9	1.8	1.5	24	e2.4	2.9	4.6	11	2.1	4.8	2.2	37	0.59
10	1.8	1.5	373	e2.4	8.5	3.5	4.3	2.0	2.9	1.4	2.5	0.88
11	1.7	1.5	33	e2.5	3.0	5.0	3.7	2.0	2.2	1.4	1.6	0.75
12	1.8	137	e7.1	e2.5	2.6	3.7	3.8	3.0	1.8	1.2	1.3	0.46
13	13	11	e5.2	e3.1	2.9	2.8	15	3.8	7.1	75	1.1	0.70
14	2.3	3.5	e3.9	148	13	5.7	9.2	2.0	3.5	19	1.5	0.96
15	1.7	2.7	e3.5	8.9	4.6	2.8	3.8	3.8	1.4	3.7	1.0	0.88
16	1.6	1.9	e3.3	5.8	3.5	37	3.3	2.0	1.1	2.8	1.1	2.4
17	1.6	1.9	e3.7	4.6	3.5	48	2.8	1.8	1.1	2.2	3.8	1.9
18	1.6	1.8	e3.3	3.8	3.2	8.8	2.8	1.8	1.1	1.5	3.0	0.61
19	4.1	1.7	e3.1	3.8	2.7	4.9	2.8	6.2	0.99	1.7	1.8	0.47
20	2.1	1.8	e2.8	3.9	3.1	4.0	2.6	8.1	0.96	7.6	25	5.4
21	1.5	1.7	e2.8	5.0	4.9	3.5	2.6	4.2	0.91	2.5	3.6	5.2
22	1.6	1.8	e3.0	3.7	2.6	7.8	3.4	2.0	1.0	2.1	1.0	0.86
23	1.7	64	39	3.4	2.4	33	3.7	6.6	0.99	1.8	14	0.26
24	4.0	24	7.1	3.0	33	9.5	2.5	4.0	0.96	1.4	1.5	0.35
25	1.7	25	e3.6	3.1	5.9	5.0	2.5	2.5	0.99	1.4	1.1	0.35
26	1.6	3.9	e3.2	2.9	3.6	4.2	2.8	1.4	0.96	1.3	0.89	1.0
27	1.6	27	e3.0	2.9	3.4	4.6	3.0	1.3	17	1.4	0.71	0.59
28	2.4	22	e2.8	3.2	106	221	2.8	1.3	42	23	0.78	0.64
29	2.5	3.9	e2.8	5.2	---	13	9.3	1.3	2.6	71	0.84	0.60
30	e1.7	3.0	e2.8	31	---	5.4	3.4	1.2	1.5	69	0.82	0.76
31	e1.4	---	e2.8	6.3	---	4.3	---	1.2	---	7.9	0.72	---
TOTAL	81.0	391.2	572.9	283.0	302.9	506.1	198.8	136.8	203.86	378.6	127.66	30.73
MEAN	2.61	13.0	18.5	9.13	10.8	16.3	6.63	4.41	6.80	12.2	4.12	1.02
MAX	13	137	373	148	106	221	43	38	49	75	37	5.4
MIN	1.4	1.4	2.1	2.4	2.4	2.7	2.5	1.2	0.91	1.2	0.71	0.26
CFSM	0.36	1.78	2.52	1.25	1.48	2.23	0.90	0.60	0.93	1.67	0.56	0.14
IN.	0.41	1.99	2.91	1.44	1.54	2.57	1.01	0.69	1.03	1.92	0.65	0.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2005, BY WATER YEAR (WY)

MEAN	9.04	7.99	11.5	9.75	11.6	16.9	14.9	10.1	9.66	12.6	9.17	27.6
MAX	28.3	20.0	24.2	17.5	21.4	41.0	46.8	32.8	26.9	28.8	19.1	53.5
(WY)	(2003)	(2003)	(2003)	(2002)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)	(2003)	(2004)
MIN	1.90	1.09	2.56	3.13	4.18	5.25	2.12	3.69	2.34	5.27	3.52	1.02
(WY)	(2001)	(2002)	(2001)	(2004)	(2002)	(2004)	(2002)	(2002)	(2002)	(2002)	(2004)	(2005)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1999 - 2005	
ANNUAL TOTAL	4,893.51		3,213.55		12.8	
ANNUAL MEAN	13.4		8.80		6.22	
HIGHEST ANNUAL MEAN					27.6	2003
LOWEST ANNUAL MEAN					6.22	2002
HIGHEST DAILY MEAN	740	Sep 8	373	Dec 10	740	Sep 8, 2004
LOWEST DAILY MEAN	0.65	Sep 5	0.26	Sep 23	0.11	Jun 22, 2002
ANNUAL SEVEN-DAY MINIMUM	0.73	Aug 23	0.50	Sep 3	0.13	Aug 7, 2002
MAXIMUM PEAK FLOW			2,280	Dec 10	3,350*	Sep 23, 2003
MAXIMUM PEAK STAGE			10.92	Dec 10	15.45	Sep 23, 2003
INSTANTANEOUS LOW FLOW			0.17	Sep 23	0.10*	Jun 22, 2002
ANNUAL RUNOFF (CFSM)	1.82		1.20		1.74	
ANNUAL RUNOFF (INCHES)	24.83		16.31		23.64	
10 PERCENT EXCEEDS	14		18		25	
50 PERCENT EXCEEDS	2.8		2.8		2.7	
90 PERCENT EXCEEDS	1.4		0.99		0.76	

* See REMARKS.
e Estimated.

