

02094659 SOUTH BUFFALO CREEK NEAR POMONA, NC

LOCATION.--Lat 36°02'59", long 79°51'21", 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 below 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)

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 and current water year 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.

REVISIONS.--The maximum discharges for some water years have been revised as shown in the following table. They supersede figures in the reports 2000, 2001, 2002.

Water Year	Date	Discharge (ft ³ /s)	Gage Height (ft)
1999	Aug. 26, 1999	1,200	7.68
2000	Sept. 15, 2000	2,690	14.01
2001	Sept. 24, 2001	1,100	7.37
2002	Oct. 14, 2001	980	6.93

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1.1	2.2	1.4	109	4.3	34	7.9	21	6.7	1.8	11	5.6
2	1.0	1.8	1.4	7.3	3.3	47	7.2	6.4	3.3	118	5.8	2.7
3	1.0	1.5	1.4	41	2.9	7.5	6.8	5.7	97	11	11	72
4	0.94	2.5	1.6	6.5	24	6.0	6.5	5.2	57	3.6	42	295
5	0.95	43	115	4.4	3.8	6.6	18	12	11	3.0	9.9	12
6	0.85	40	29	3.8	4.1	90	7.1	22	4.1	31	4.4	4.2
7	0.87	3.1	7.9	3.2	53	7.3	236	6.4	465	14	3.3	3.3
8	0.80	2.2	5.3	2.9	6.7	5.5	47	5.1	50	2.8	18	3.2
9	0.81	2.0	4.3	2.7	4.0	4.8	157	4.8	33	3.4	110	2.8
10	0.83	1.9	3.1	2.6	4.8	4.3	629	5.0	4.9	3.3	28	2.4
11	328	15	137	2.5	3.3	4.1	44	4.7	3.5	2.1	34	2.2
12	2.8	190	9.8	2.4	2.8	4.0	16	4.3	3.4	2.4	30	2.3
13	192	9.5	136	2.4	2.6	25	11	4.3	2.9	13	7.3	2.3
14	7.8	2.6	14	2.5	3.0	8.2	8.5	4.1	2.4	16	3.9	2.4
15	12	1.9	5.6	2.4	4.3	7.1	7.3	252	2.6	2.6	4.3	2.4
16	167	155	4.6	2.3	4.7	82	6.7	22	11	2.4	7.9	2.3
17	4.4	100	3.7	e2.3	3.3	7.6	6.2	11	9.9	2.3	110	2.2
18	2.4	7.0	3.1	2.4	30	20	28	29	5.0	5.0	18	217
19	1.7	2.7	3.1	2.3	7.0	6.7	21	32	6.1	4.1	3.9	29
20	1.5	1.9	50	2.4	5.0	676	8.1	5.3	8.3	2.4	3.1	4.6
21	3.0	1.6	4.5	2.3	3.6	23	7.4	22	2.6	2.1	3.0	3.8
22	5.0	1.5	3.4	2.3	244	11	7.2	226	2.1	39	2.8	50
23	1.5	1.4	3.0	e2.3	17	8.4	6.1	37	1.9	12	2.5	615
24	1.4	1.4	118	e2.4	7.2	7.7	5.7	10	1.8	5.4	13	11
25	2.3	1.4	63	2.4	6.2	7.2	6.6	42	1.8	2.5	2.6	5.3
26	2.8	1.4	6.6	2.4	19	6.9	57	155	1.7	2.3	2.4	4.1
27	1.4	1.3	4.1	2.3	97	7.1	9.4	10	4.0	2.1	2.2	5.5
28	44	1.3	3.3	2.2	29	6.6	6.3	5.6	2.0	2.0	2.0	13
29	52	1.3	2.9	8.8	---	14	5.5	16	1.8	121	13	2.9
30	31	1.4	2.6	74	---	114	14	6.1	1.7	21	45	2.5
31	3.3	---	2.7	7.2	---	12	---	24	---	17	38	---
TOTAL	876.45	599.8	751.4	315.9	599.9	1,271.6	1,404.5	1,016.0	808.5	470.6	592.3	1,383.0
MEAN	28.3	20.0	24.2	10.2	21.4	41.0	46.8	32.8	26.9	15.2	19.1	46.1
MAX	328	190	137	109	244	676	629	252	465	121	110	615
MIN	0.80	1.3	1.4	2.2	2.6	4.0	5.5	4.1	1.7	1.8	2.0	2.2
CFSM	3.87	2.74	3.32	1.40	2.93	5.62	6.41	4.49	3.69	2.08	2.62	6.32
IN.	4.47	3.06	3.83	1.61	3.06	6.48	7.16	5.18	4.12	2.40	3.02	7.05

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1999 - 2003, BY WATER YEAR (WY)

	1999	2000	2001	2002	2003
MEAN	11.2	7.31	9.80	11.6	12.0
MAX	28.3	20.0	24.2	17.5	21.4
(WY)	(2003)	(2003)	(2003)	(2002)	(2003)
MIN	1.90	1.09	2.56	7.14	4.18
(WY)	(2001)	(2002)	(2001)	(2001)	(2002)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1999 - 2003	
ANNUAL TOTAL	3,957.49		10,089.95		13.8	
ANNUAL MEAN	10.8		27.6		27.6	
HIGHEST ANNUAL MEAN					6.22	2003
LOWEST ANNUAL MEAN					6.22	2002
HIGHEST DAILY MEAN	328	Oct 11	676	Mar 20	676	Mar 20, 2003
LOWEST DAILY MEAN	0.11	Jun 22	0.80	Oct 8	0.11	Jun 22, 2002
ANNUAL SEVEN-DAY MINIMUM	0.13	Aug 7	0.86	Oct 4	0.13	Aug 7, 2002
MAXIMUM PEAK FLOW			3,350*	Sep 23	3,350*	Sep 23, 2003
MAXIMUM PEAK STAGE			14.45	Sep 23	14.45	Sep 23, 2003
INSTANTANEOUS LOW FLOW			0.67	Oct 8	0.10*	Jun 22, 2002
ANNUAL RUNOFF (CFSM)	1.49		3.79		1.89	
ANNUAL RUNOFF (INCHES)	20.17		51.42		25.69	
10 PERCENT EXCEEDS	20		57		31	
50 PERCENT EXCEEDS	1.8		5.1		2.6	
90 PERCENT EXCEEDS	0.20		1.8		0.63	

e Estimated.
 * See REMARKS.

