

CAPE FEAR RIVER BASIN

0209553650 BUFFALO CREEK AT SECONDARY ROAD 2819 NEAR McLEANSVILLE, NC

LOCATION.--Lat 36°07'40", long 79°39'443", Guilford County, Hydrologic Unit 03030002, on left bank of upstream side of bridge on Secondary Road 2819, 300 ft below the confluence of North Buffalo Creek and South Buffalo Creek, and 1.3 mi north of McLeansville.

DRAINAGE AREA.--88.5 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--August 1998 to current year.

GAGE.--Water-stage recorder. Elevation of gage is 650 ft above NGVD of 1929, from topographic map. Satellite telemetry at station.

REMARKS.--Records good, except those for estimated daily discharges which are poor.

REVISIONS.--The maximum discharge for water year 1999 has been revised to 4,320 ft<sup>3</sup>/s, Apr. 30, 1999, gage height, 14.36 ft.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	65	58	62	45	100	90	191	69	55	45	41	3520
2	64	61	58	48	91	216	87	147	86	46	42	250
3	66	57	60	50	90	585	75	74	55	69	38	107
4	64	55	59	66	89	153	69	110	53	134	40	80
5	66	55	53	81	90	96	66	124	50	139	41	67
6	61	57	56	415	88	81	66	68	50	52	45	61
7	67	59	60	221	524	78	66	60	153	41	44	57
8	66	58	56	112	196	75	68	62	55	41	38	55
9	64	59	53	74	124	74	68	60	44	44	42	56
10	64	55	95	67	122	80	77	59	47	44	37	54
11	68	53	619	64	137	70	71	58	47	249	37	55
12	67	54	e80	59	105	107	69	62	48	65	41	54
13	65	56	e61	60	100	183	72	61	44	42	42	56
14	330	59	59	59	96	117	67	185	47	50	41	53
15	286	58	e52	60	97	86	84	63	44	57	46	274
16	65	59	e46	57	94	78	73	58	40	47	89	112
17	59	56	e53	59	95	149	70	57	42	43	55	56
18	55	56	e224	59	95	137	67	87	44	41	100	48
19	56	57	71	684	93	96	69	71	47	45	60	95
20	49	56	56	1010	92	91	80	56	41	39	60	56
21	51	56	51	202	106	184	67	59	45	40	45	52
22	54	56	50	152	94	115	70	64	43	47	44	49
23	53	50	47	953	91	86	66	57	42	75	47	45
24	55	82	129	390	90	81	65	53	41	95	44	46
25	62	75	56	369	91	77	69	49	41	107	42	46
26	63	57	48	160	92	75	70	46	41	205	52	216
27	52	56	49	120	91	158	65	49	134	202	53	177
28	50	56	e48	109	91	86	67	49	86	83	192	83
29	54	58	48	104	---	74	69	50	50	51	128	52
30	56	60	46	99	---	74	71	50	44	48	286	48
31	57	---	48	97	---	114	---	75	---	44	458	---
TOTAL	2354	1744	2553	6105	3264	3766	2234	2192	1659	2330	2370	5980
MEAN	75.94	58.13	82.35	196.9	116.6	121.5	74.47	70.71	55.30	75.16	76.45	199.3
MAX	330	82	619	1010	524	585	191	185	153	249	458	3520
MIN	49	50	46	45	88	70	65	46	40	39	37	45
CFSM	0.86	0.66	0.93	2.23	1.32	1.37	0.84	0.80	0.62	0.85	0.86	2.25
IN.	0.99	0.73	1.07	2.57	1.37	1.58	0.94	0.92	0.70	0.98	1.00	2.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2002, BY WATER YEAR (WY)

	1998	1999	2000	2001	1999	2000	2001	2002	2002	2002	2002	1998	2002
MEAN	78.90	70.12	99.13	190.1	145.5	160.5	159.8	99.04	129.0	133.1	115.1	219.5	
MAX	114	85.5	129	271	196	251	204	133	255	196	187	389	
(WY)	2000	2001	1999	1999	2000	2001	1999	2001	2000	2001	2000	2000	
MIN	57.6	53.1	77.5	132	100	112	74.5	70.7	55.3	75.2	76.5	76.6	
(WY)	1999	1999	2001	2001	1999	1999	2002	2002	2002	2002	2002	1998	

SUMMARY STATISTICS FOR 2001 CALENDAR YEAR FOR 2002 WATER YEAR WATER YEARS 1998 - 2002

ANNUAL TOTAL	48353	36551	
ANNUAL MEAN	132.5	100.1	136.6
HIGHEST ANNUAL MEAN			172
LOWEST ANNUAL MEAN			100
HIGHEST DAILY MEAN	1600	Mar 30	3520
LOWEST DAILY MEAN	46	Dec 16	37
ANNUAL SEVEN-DAY MINIMUM	49	Dec 25	40
MAXIMUM PEAK FLOW			5730
MAXIMUM PEAK STAGE			17.53
INSTANTANEOUS LOW FLOW			22
ANNUAL RUNOFF (CFSM)	1.50		1.13
ANNUAL RUNOFF (INCHES)	20.32		15.36
10 PERCENT EXCEEDS	232		150
50 PERCENT EXCEEDS	81		61
90 PERCENT EXCEEDS	56		44

e Estimated.

0209553650 BUFFALO CREEK AT SECONDARY ROAD 2819 NEAR McLEANSVILLE, NC--Continued

