

Water-Data Report 2008

0209553650 BUFFALO CREEK AT SECONDARY ROAD 2819 NEAR MCLEANSVILLE, NC

Cape Fear Basin
Haw Subbasin

LOCATION.--Lat 36°07'41", long 79°39'42" referenced to North American Datum of 1983, Guilford County, NC, Hydrologic Unit 03030002, on left bank of upstream side of bridge on Secondary Road 2819, 300 ft downstream from the confluence of North Buffalo Creek and South Buffalo Creek, and 1.3 mi north of McLeansville.

DRAINAGE AREA.--88.5 mi².

SURFACE-WATER RECORDS

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

REVISED RECORDS.--WDR NC-02-1B: 1999 (maximum discharge).

GAGE.--Water-stage recorder. Datum of gage is 647.49 ft above North American Vertical Datum of 1988. Satellite telemetry at station.

REMARKS.--Records fair.

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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	41	54	55	143	639	68	368	114	402	91	94	59
2	40	58	53	101	234	64	160	102	87	66	38	55
3	e39	53	56	88	133	65	111	82	70	51	32	53
4	43	51	54	74	118	130	554	77	71	42	32	60
5	45	48	58	71	185	627	1,190	73	57	90	34	55
6	39	50	57	72	109	130	962	83	52	428	34	621
7	38	55	54	73	115	269	281	72	45	69	33	125
8	e39	48	50	72	84	408	179	75	49	51	33	72
9	39	47	54	66	67	167	143	119	51	266	29	63
10	45	50	58	71	65	104	114	82	48	158	33	72
11	42	48	54	114	58	94	99	75	45	82	34	149
12	41	55	53	80	57	85	93	113	47	48	34	105
13	35	53	53	66	208	76	87	67	59	101	32	61
14	36	51	57	63	203	75	80	78	49	356	42	55
15	42	202	53	64	159	152	94	59	48	61	34	55
16	41	87	389	64	94	351	73	114	48	45	40	819
17	39	56	87	236	81	108	73	63	48	39	31	366
18	41	53	64	185	93	88	76	76	50	35	32	103
19	186	49	62	97	84	84	70	120	45	48	31	78
20	82	54	57	92	70	272	286	63	44	53	28	63
21	65	56	75	76	62	105	367	79	44	36	50	56
22	49	77	61	72	71	79	135	52	277	36	40	55
23	45	55	110	82	74	73	104	52	631	77	45	55
24	284	63	104	75	65	76	89	46	125	318	29	56
25	443	49	79	64	85	77	79	46	72	57	28	53
26	1,350	63	188	62	218	69	76	44	51	36	64	446
27	1,460	63	112	61	138	68	158	48	56	32	2,790	273
28	118	58	104	58	82	65	1,050	73	41	32	1,720	164
29	88	59	286	63	67	111	619	79	39	31	130	85
30	66	58	560	74	---	100	158	57	745	35	87	71
31	54	---	637	68	---	237	---	140	---	35	68	---
Total	5,015	1,823	3,794	2,647	3,718	4,477	7,928	2,423	3,496	2,905	5,781	4,403
Mean	162	60.8	122	85.4	128	144	264	78.2	117	93.7	186	147
Max	1,460	202	637	236	639	627	1,190	140	745	428	2,790	819
Min	35	47	50	58	57	64	70	44	39	31	28	53
Cfsm	1.83	0.69	1.38	0.96	1.45	1.63	2.99	0.88	1.32	1.06	2.11	1.66
In.	2.11	0.77	1.59	1.11	1.56	1.88	3.33	1.02	1.47	1.22	2.43	1.85

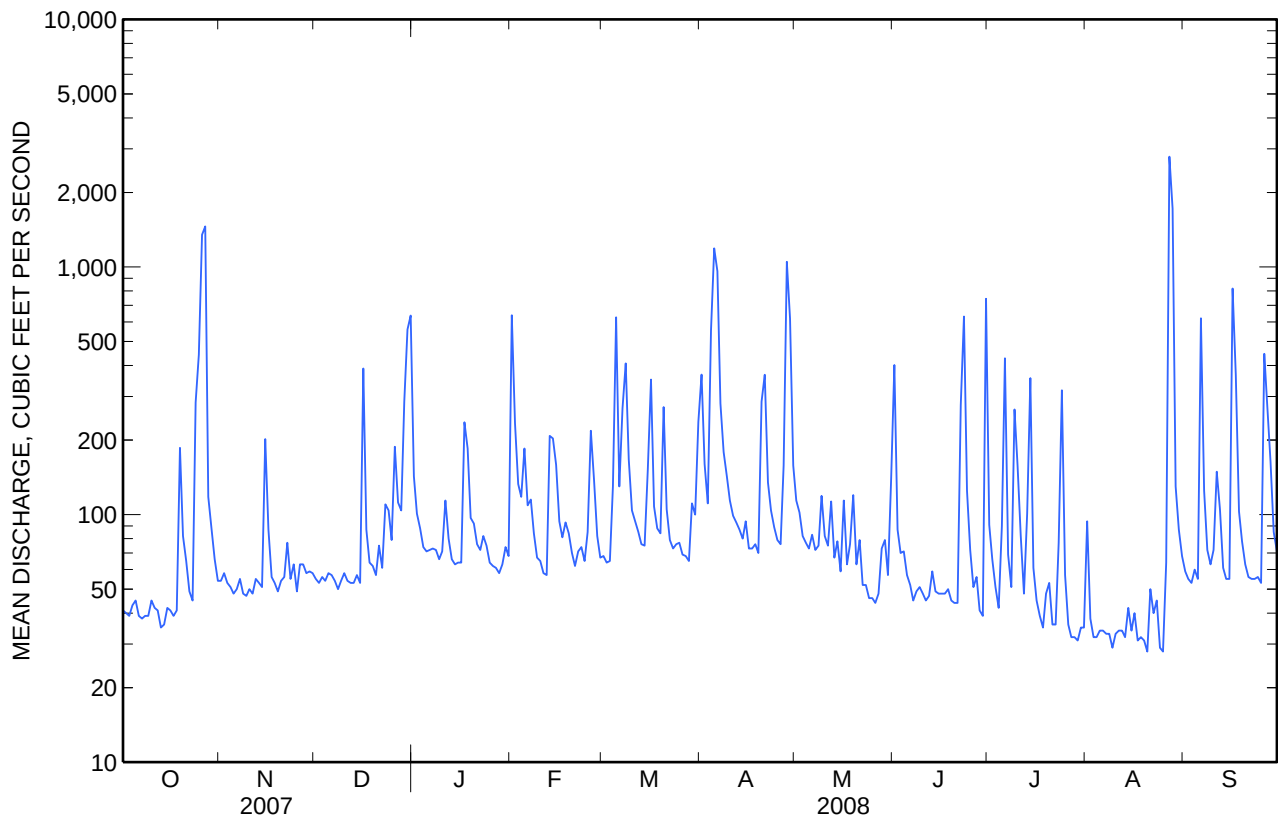
STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	120	134	160	157	162	191	204	114	154	148	125	212
Max	346	302	362	271	299	532	552	343	329	262	291	412
(WY)	(2003)	(2007)	(2003)	(1999)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
Min	57.6	53.1	77.5	85.4	97.4	77.7	74.5	61.6	55.3	75.2	47.6	48.4
(WY)	(1999)	(1999)	(2001)	(2008)	(2006)	(2006)	(2002)	(2007)	(2002)	(2002)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1998 - 2008	
Annual total	43,754		48,410			
Annual mean	120		132		158	
Highest annual mean					349	2003
Lowest annual mean					100	2002
Highest daily mean	2,170	Mar 2	2,790	Aug 27	4,550	Mar 20, 2003
Lowest daily mean	35	Oct 13	28	Aug 20	28	Aug 20, 2008
Annual seven-day minimum	39	Sep 27	32	Aug 3	32	Aug 3, 2008
Maximum peak flow			5,310	Aug 27	6,720	Mar 20, 2003
Maximum peak stage			16.72	Aug 27	19.35	Mar 20, 2003
Instantaneous low flow			NOT DETERMINED		NOT DETERMINED	
Annual runoff (cfs)	1.35		1.49		1.78	
Annual runoff (inches)	18.39		20.35		24.24	
10 percent exceeds	187		270		274	
50 percent exceeds	62		68		78	
90 percent exceeds	42		39		50	



0209553650 BUFFALO CREEK AT SECONDARY ROAD 2819 NEAR MCLEANSVILLE, NC—Continued**CLIMATOLOGICAL RECORDS**

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

INSTRUMENTATION.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Precipitation data collected during freezing periods may not be accurately reflected in 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	0.97	0.00	0.20	0.00	0.00	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	0.02	0.00
3	0.00	0.00	0.00	0.00	0.04	0.00	0.58	0.00	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.20	0.80	0.75	0.00	0.00	0.06	0.00	0.00
5	0.00	0.00	0.00	0.00	0.01	0.00	0.18	0.00	0.00	0.43	0.00	0.04
6	0.00	0.01	0.00	0.00	0.00	0.00	0.70	0.00	0.00	0.04	0.00	1.54
7	0.00	0.00	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00	0.00	0.17	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.31	0.00	0.00
10	0.00	0.00	0.00	0.09	0.00	0.00	0.00	0.00	0.00	0.01	0.08	0.27
11	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.18	0.00	0.00	0.00	0.15
12	0.00	0.00	0.00	0.00	0.23	0.00	0.03	0.01	0.58	0.00	0.00	0.00
13	0.00	0.01	0.00	0.00	0.53	0.00	0.00	0.00	0.00	0.52	0.13	0.00
14	0.00	0.00	0.00	0.00	0.17	0.00	0.00	0.00	0.02	0.06	0.00	0.00
15	0.00	0.46	0.77	0.00	0.00	0.63	0.00	0.16	0.01	0.00	0.00	0.00
16	0.00	0.00	0.25	0.00	0.00	0.01	0.00	0.16	0.00	0.00	0.00	1.52
17	0.00	0.00	0.00	0.58	0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00
18	0.00	0.00	0.00	0.08	0.00	0.00	0.00	0.35	0.00	0.00	0.00	0.00
19	0.82	0.01	0.01	0.00	0.00	0.24	0.43	0.00	0.00	0.00	0.00	0.00
20	0.00	0.00	0.00	0.00	0.00	0.12	0.59	0.33	0.00	0.00	0.00	0.00
21	0.00	0.00	0.14	0.00	0.00	0.00	0.17	0.00	0.11	0.00	0.00	0.00
22	0.00	0.12	0.00	0.05	0.04	0.00	0.02	0.00	1.34	0.00	0.00	0.00
23	0.09	0.00	0.28	0.00	0.02	0.00	0.00	0.00	0.01	0.64	0.00	0.00
24	1.06	0.00	0.00	0.00	0.08	0.06	0.00	0.03	0.00	0.00	0.00	0.00
25	1.09	0.03	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.01	0.03
26	3.63	0.05	0.23	0.00	0.33	0.00	0.00	0.00	0.10	0.00	1.40	1.32
27	0.01	0.00	0.00	0.00	0.00	0.00	0.53	0.19	0.00	0.00	4.97	0.09
28	0.00	0.00	0.40	0.00	0.00	0.00	1.10	0.24	0.00	0.00	0.01	0.00
29	0.00	0.00	0.03	0.00	0.00	0.21	0.00	0.00	1.11	0.00	0.00	0.00
30	0.00	0.00	1.15	0.09	---	0.08	0.00	0.00	0.83	0.00	0.00	0.07
31	0.00	---	0.00	0.00	---	0.52	---	0.52	---	0.24	0.00	---
Total	6.70	0.69	3.26	0.94	2.67	3.36	5.28	2.21	4.11	2.48	6.63	5.03

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