

Water-Data Report 2007

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(M).

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

REMARKS.--No estimated daily discharges. Records fair. Minimum discharge for period of record and current water year also occurred on September 23, 2007.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	60	55	162	339	76	101	65	62	52	61	48	50
2	60	53	97	162	103	2,170	71	61	50	50	44	40
3	56	55	72	101	80	239	67	58	323	50	43	36
4	54	49	70	88	78	153	62	65	126	46	38	40
5	56	49	70	213	69	104	61	98	391	48	41	42
6	63	51	71	337	68	89	58	109	149	109	44	38
7	62	250	69	266	71	83	60	79	66	53	45	43
8	173	401	66	996	71	81	58	63	59	44	45	37
9	92	102	64	212	70	79	55	66	52	51	43	38
10	61	89	61	134	64	74	60	81	54	75	47	41
11	60	66	63	100	62	70	193	64	51	174	44	41
12	125	566	63	94	63	68	699	63	57	90	44	42
13	65	127	64	85	82	72	127	60	56	55	43	40
14	54	87	64	80	1,720	73	91	58	100	48	44	53
15	53	73	67	74	194	71	1,860	55	59	45	47	251
16	54	1,510	60	77	152	873	1,710	55	57	52	47	46
17	241	265	57	74	113	392	200	68	49	195	48	43
18	400	127	58	77	98	143	140	62	46	168	49	44
19	76	90	60	100	90	116	115	55	53	66	42	41
20	77	70	59	86	89	94	95	50	54	55	44	41
21	62	210	58	81	90	84	84	52	50	54	46	46
22	63	3,350	214	448	87	83	74	57	48	47	91	41
23	73	647	254	134	82	84	71	57	46	53	47	39
24	52	181	83	107	77	75	73	61	46	56	55	43
25	54	115	741	90	513	71	71	57	156	91	42	41
26	49	93	364	86	400	69	69	49	59	67	38	42
27	82	88	135	78	147	73	166	47	64	99	40	39
28	393	81	102	74	116	74	87	48	555	226	42	39
29	82	77	85	70	---	137	65	48	168	130	46	38
30	65	80	77	69	---	84	64	51	62	66	82	37
31	59	---	76	71	---	73	---	51	---	52	56	---
Total	2,976	9,057	3,606	5,003	4,925	6,052	6,671	1,910	3,158	2,476	1,475	1,452
Mean	96.0	302	116	161	176	195	222	61.6	105	79.9	47.6	48.4
Max	400	3,350	741	996	1,720	2,170	1,860	109	555	226	91	251
Min	49	49	57	69	62	68	55	47	46	44	38	36
Cfsm	1.08	3.41	1.31	1.82	1.99	2.21	2.51	0.70	1.19	0.90	0.54	0.55
In.	1.25	3.81	1.52	2.10	2.07	2.54	2.80	0.80	1.33	1.04	0.62	0.61

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2007, BY WATER YEAR (WY)

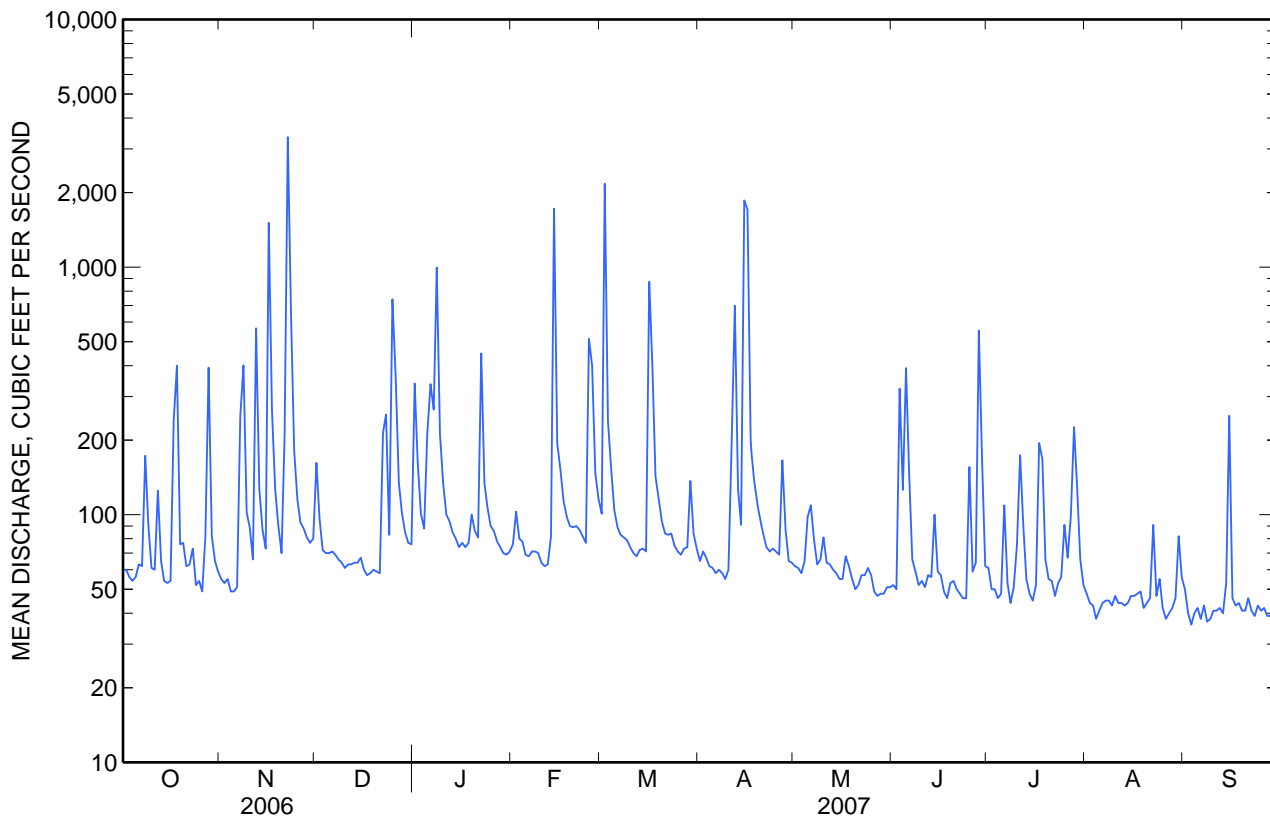
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	116	142	164	165	166	196	198	117	158	154	119	218
Max	346	302	362	271	299	532	552	343	329	262	291	412
(WY)	(2003)	(2007)	(2003)	(1999)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2003)	(2004)
Min	57.6	53.1	77.5	86.3	97.4	77.7	74.5	61.6	55.3	75.2	47.6	48.4
(WY)	(1999)	(1999)	(2001)	(2004)	(2006)	(2006)	(2002)	(2007)	(2002)	(2002)	(2007)	(2007)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1998 - 2007	
Annual total	51,449		48,761			
Annual mean	141		134		161	
Highest annual mean					349 2003	
Lowest annual mean					100 2002	
Highest daily mean	3,350	Nov 22	3,350	Nov 22	4,550	Mar 20, 2003
Lowest daily mean	40	Aug 15	36	Sep 3	36	Sep 3, 2007
Annual seven-day minimum	53	Oct 31	39	Sep 3	39	Sep 3, 2007
Maximum peak flow			4,370	Nov 22	6,720	Mar 20, 2003
Maximum peak stage			14.84	Nov 22	19.35	Mar 20, 2003
Instantaneous low flow			^a 22	Sep 23	^a 22	Jul 21, 2002
Annual runoff (cfsm)	1.59		1.51		1.82	
Annual runoff (inches)	21.63		20.50		24.68	
10 percent exceeds	241		211		276	
50 percent exceeds	73		68		79	
90 percent exceeds	54		44		52	

^a See Remarks.



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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 2006 TO SEPTEMBER 2007
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.01	0.00	0.04	0.44	0.18	0.50	0.00	0.00	0.00	0.00	0.00	0.00
2	0.00	0.00	0.00	0.00	0.04	0.87	0.01	0.00	0.01	0.00	0.00	0.00
3	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.26	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.82	0.00	0.00	0.00
5	0.05	0.00	0.00	0.39	0.00	0.00	0.00	0.30	0.06	0.28	0.00	0.00
6	0.06	0.00	0.00	0.01	0.00	0.00	0.04	0.00	0.00	0.03	0.00	0.00
7	0.19	0.75	0.00	0.47	0.00	0.00	0.06	0.00	0.00	0.00	0.00	0.00
8	0.16	0.45	0.00	0.42	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.33	0.00	0.00	0.00	0.00
10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.26	0.00	0.00
11	0.31	0.35	0.00	0.00	0.00	0.00	1.07	0.00	0.10	0.49	0.00	0.01
12	0.01	0.37	0.00	0.00	0.00	0.00	0.34	0.03	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	1.58	0.00	0.00	0.00	0.15	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.11	0.00	0.56	0.00	0.00	0.00	0.00	0.45
15	0.00	0.00	0.00	0.00	0.00	0.00	2.03	0.00	0.00	0.00	0.00	0.00
16	0.00	1.28	0.00	0.00	0.00	0.76	0.00	0.05	0.00	0.54	0.00	0.00
17	0.99	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.70	0.21	0.00
18	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
19	0.00	0.00	0.00	0.18	0.00	0.00	0.01	0.00	0.01	0.00	0.00	0.00
20	0.06	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00	0.00
21	0.00	1.85	0.00	0.01	0.00	0.05	0.00	0.00	0.00	0.00	0.23	0.02
22	0.17	0.98	0.80	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
23	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.27	0.00	0.03	0.01	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.05	0.13	0.00	0.00
25	0.00	0.00	0.84	0.00	0.98	0.00	0.00	0.00	0.02	0.05	0.00	0.00
26	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.04	0.00	0.00
27	0.61	0.00	0.00	0.00	0.00	0.00	---	0.00	---	0.00	0.00	0.00
28	0.30	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.07	0.19	0.00	0.00
29	0.00	0.00	0.00	0.00	---	0.16	0.00	0.00	0.07	0.00	0.00	0.00
30	0.00	0.13	0.00	0.00	---	0.00	0.00	0.00	0.05	0.13	0.02	0.00
31	0.00	---	0.02	0.00	---	0.00	---	0.00	---	0.00	0.00	---
Total	2.92	6.16	1.72	1.97	2.89	2.34	---	1.06	---	2.89	0.48	0.48

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