



Water-Data Report 2010

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 (annual maximum discharge).

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

REMARKS.--No estimated daily discharges. Records fair. Minimum discharge for period of record also occurred August 19, 2008. Minimum discharge for the current water year also occurred on September 26.

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

DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	76	940	97	131	167	98	120	58	144	57	75	50
2	57	170	413	100	278	103	102	59	92	54	59	48
3	53	86	863	90	869	186	90	64	98	51	55	49
4	49	66	186	89	383	130	86	68	73	49	53	48
5	59	59	253	89	1,500	106	87	61	65	48	55	48
6	65	56	169	87	2,090	96	86	60	61	52	167	42
7	59	52	122	84	325	90	80	61	109	52	57	49
8	55	52	109	94	213	91	83	58	64	55	49	51
9	56	55	1,290	80	173	93	379	50	60	55	45	54
10	107	92	268	79	238	90	96	55	59	81	50	52
11	74	2,670	153	80	152	92	78	55	59	56	54	49
12	85	4,680	118	81	134	146	75	58	58	54	1,050	48
13	156	1,280	296	77	144	744	70	55	288	94	113	52
14	83	227	223	79	134	303	68	58	182	2,070	81	49
15	147	133	142	77	139	148	69	55	104	123	68	48
16	95	113	111	78	162	117	70	336	592	82	73	51
17	86	101	98	1,380	122	102	65	870	254	656	57	50
18	69	91	98	274	118	98	62	510	93	320	107	45
19	67	98	253	149	107	93	61	158	72	123	88	47
20	72	86	287	120	103	86	64	99	64	104	79	46
21	71	83	238	205	100	84	97	66	62	190	59	46
22	70	75	185	487	226	95	76	60	63	66	51	55
23	73	832	152	166	158	91	66	261	60	59	52	56
24	89	273	141	130	169	83	64	123	67	57	54	50
25	123	142	1,480	3,440	195	79	173	91	62	53	52	48
26	72	112	1,460	359	119	94	89	63	61	51	54	60
27	81	210	218	183	108	103	66	57	55	197	52	350
28	801	102	150	143	101	129	62	56	57	293	49	190
29	102	89	121	117	---	1,970	59	539	57	66	46	185
30	79	87	106	143	---	282	59	95	58	58	49	3,330
31	57	---	150	130	---	172	---	133	---	55	52	---
Total	3,188	13,112	9,950	8,821	8,727	6,194	2,702	4,392	3,193	5,381	3,005	5,346
Mean	103	437	321	285	312	200	90.1	142	106	174	96.9	178
Max	801	4,680	1,480	3,440	2,090	1,970	379	870	592	2,070	1,050	3,330
Min	49	52	97	77	100	79	59	50	55	48	45	42
Cfsm	1.16	4.94	3.63	3.22	3.52	2.26	1.02	1.60	1.20	1.96	1.10	2.01
In.	1.34	5.51	4.18	3.71	3.67	2.60	1.14	1.85	1.34	2.26	1.26	2.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1998 - 2010, BY WATER YEAR (WY)

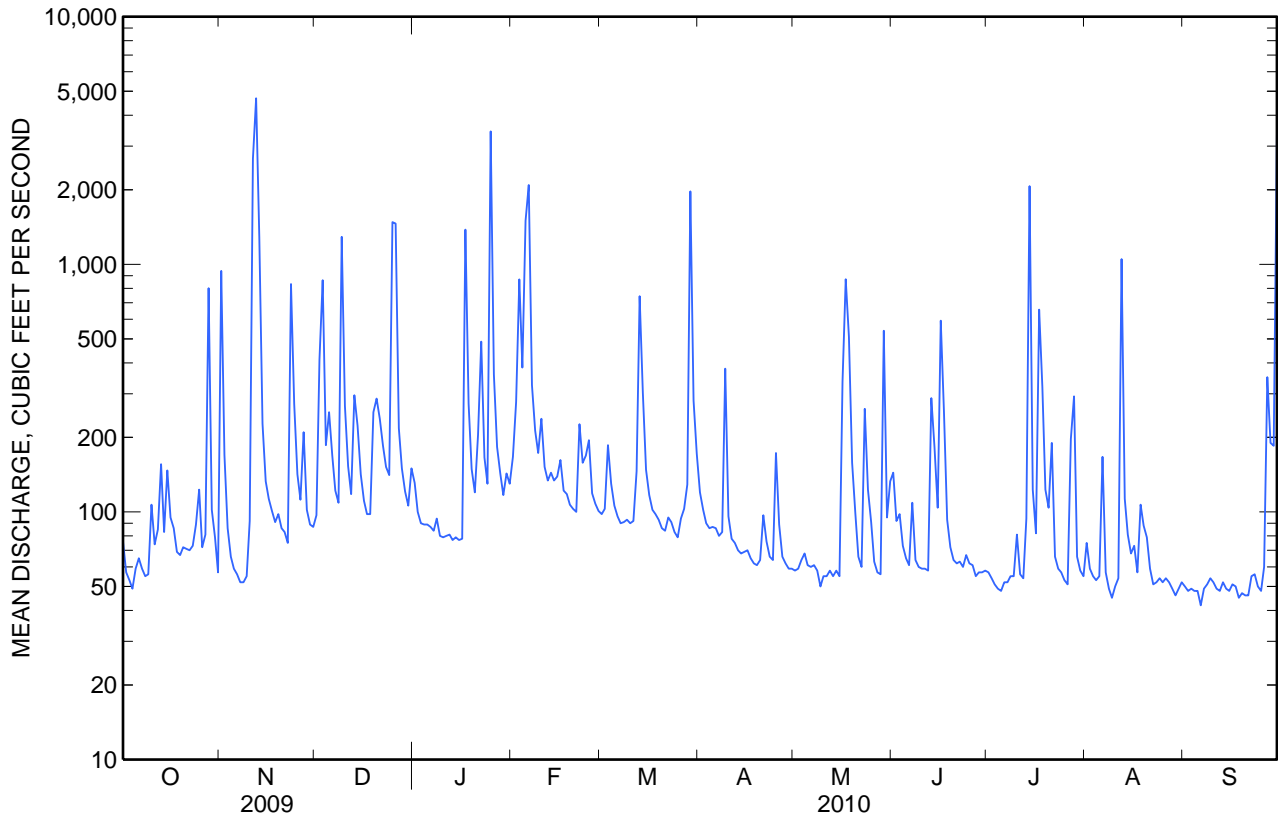
	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	114	156	173	167	168	198	191	120	166	144	120	200
Max	346	437	362	285	312	532	552	343	340	262	291	412
(WY)	(2003)	(2010)	(2003)	(2010)	(2010)	(2003)	(2003)	(2003)	(2009)	(2003)	(2003)	(2004)
Min	57.6	53.1	77.5	85.4	89.3	77.7	74.5	61.6	55.3	75.2	47.6	48.4
(WY)	(1999)	(1999)	(2001)	(2008)	(2009)	(2006)	(2002)	(2007)	(2002)	(2002)	(2007)	(2007)

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

SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1998 - 2010	
Annual total	68,886		74,011			
Annual mean	189		203		160	
Highest annual mean					349	2003
Lowest annual mean					100	2002
Highest daily mean	4,680	Nov 12	4,680	Nov 12	4,680	Nov 12, 2009
Lowest daily mean	35	Sep 7	42	Sep 6	28	Aug 20, 2008
Annual seven-day minimum	40	Sep 5	48	Sep 15	32	Aug 3, 2008
Maximum peak flow			5,670	Nov 12	6,720	Mar 20, 2003
Maximum peak stage			17.40	Nov 12	19.35	Mar 20, 2003
Instantaneous low flow			^a 30	Aug 9	Not Determined	
Annual runoff (cfsm)	2.13		2.29		1.81	
Annual runoff (inches)	28.96		31.11		24.63	
10 percent exceeds	279		294		274	
50 percent exceeds	83		87		78	
90 percent exceeds	50		52		50	

^a See Remarks.



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.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	1.10	0.00	0.01	---	0.00	0.00	0.00	0.12	0.00	0.07	0.00
2	0.00	0.01	1.27	0.00	---	---	0.00	0.00	0.11	0.00	0.00	0.00
3	0.00	0.00	0.00	0.01	---	---	0.00	0.04	0.00	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.02	0.00
5	0.10	0.00	0.29	0.00	---	0.00	0.00	0.00	0.00	0.00	0.37	0.00
6	0.02	0.00	0.01	0.00	---	0.00	0.00	0.00	0.16	0.00	0.01	0.00
7	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
8	0.00	0.00	0.48	0.04	0.00	0.00	0.51	0.00	0.00	0.00	0.00	0.05
9	0.00	0.00	0.53	0.00	0.18	0.00	0.03	0.00	0.00	0.22	0.00	0.00
10	0.19	0.68	0.00	0.00	0.01	0.03	0.00	0.00	0.00	0.01	0.00	0.00
11	0.00	3.04	0.00	0.00	0.00	0.23	0.00	0.02	0.00	0.00	0.11	0.02
12	0.34	1.28	0.00	0.00	---	0.24	0.00	0.00	0.41	0.08	0.04	0.01
13	0.00	0.17	0.43	0.00	---	0.43	0.00	0.00	0.41	3.13	0.00	0.00
14	0.12	0.01	0.01	0.00	0.00	0.08	0.00	0.01	0.10	0.13	0.00	0.00
15	0.26	0.00	0.00	0.00	0.16	0.00	0.00	0.16	0.76	0.00	0.00	0.00
16	0.00	0.00	0.00	0.01	0.00	0.00	0.00	1.02	2.22	0.35	0.00	0.00
17	0.00	0.00	0.00	1.35	0.00	0.00	0.00	1.62	0.00	1.32	0.10	0.00
18	0.00	0.02	---	0.00	0.00	0.00	0.00	0.28	0.00	0.09	0.88	0.00
19	0.00	0.23	---	0.00	0.00	0.00	0.00	0.06	0.00	0.00	0.17	0.00
20	0.00	0.00	0.00	0.07	0.00	0.00	0.01	0.00	0.00	0.01	0.00	0.00
21	0.00	0.00	0.00	0.59	0.00	0.00	0.33	0.00	0.00	0.00	0.00	0.00
22	0.00	0.17	0.00	0.02	0.29	0.00	0.00	0.25	0.00	0.00	0.00	0.05
23	0.04	0.83	0.00	0.00	0.03	0.04	0.00	0.13	0.00	0.00	0.00	0.00
24	0.08	0.01	0.00	0.45	0.20	0.00	0.13	0.01	0.00	0.00	0.00	0.00
25	0.00	0.00	1.51	0.89	0.00	0.00	0.30	0.00	0.00	0.00	0.01	0.00
26	0.00	0.36	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.38
27	1.27	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.63	0.00	1.07
28	0.22	0.00	0.01	0.00	0.00	1.10	0.00	0.91	0.00	0.00	0.00	0.01
29	0.00	0.00	0.00	---	---	0.54	0.00	0.11	0.00	0.08	0.00	0.91
30	0.00	0.10	0.06	---	---	0.00	0.00	0.00	0.00	0.01	0.00	2.59
31	0.02	---	0.15	---	---	0.00	---	0.15	---	0.12	0.00	---
Total	2.66	8.01	---	---	---	---	1.31	4.77	4.29	6.18	1.78	5.09

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

