

Water-Data Report 2007

**02102192 BUCKHORN CREEK NEAR CORINTH, NC**

Cape Fear Basin  
Upper Cape Fear Subbasin

LOCATION.--Lat 35°33'35", long 78°58'25" referenced to North American Datum of 1983, Chatham County, NC, Hydrologic Unit 03030004, on left bank, upstream of bridge on North Carolina Highway 42, 0.2 mi downstream of White Oak Creek, 1.2 mi downstream of Harris Lake, and 2 mi east of Corinth.

DRAINAGE AREA.--76.3 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--June 1972 to current year.

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 154.63 ft above NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records poor. Since December 1, 1980, considerable regulation by Harris Lake. Maximum discharge prior to regulation: 6,920 ft<sup>3</sup>/s, February 2, 1973; gage height: 20.02 ft. Minimum discharge prior to regulation: 0.01 ft<sup>3</sup>/s, September 2, 1976. Minimum discharge for period of record also occurred June 22, 23, 2002, September 9-13, 2005.

## 02102192 BUCKHORN CREEK NEAR CORINTH, NC—Continued

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

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.55	16	123	167	55	40	66	49	2.2	e10	e0.34	e0.07
2	0.53	18	123	158	65	80	62	43	2.2	e8.0	e0.27	e0.07
3	0.52	19	112	142	63	72	57	42	12	e4.0	e0.22	e0.07
4	0.52	20	104	129	58	68	52	40	7.2	e4.0	e0.18	e0.06
5	0.50	21	91	118	55	61	47	36	e2.9	e3.5	e0.13	e0.06
6	0.59	23	82	188	50	58	40	38	e2.5	e2.5	e0.10	e0.06
7	0.73	39	76	195	46	52	38	32	e1.8	e1.3	e0.09	e0.06
8	1.2	45	68	219	42	49	31	24	e1.7	e1.3	e0.09	e0.06
9	0.98	33	60	217	39	44	28	20	e1.7	e1.0	e0.12	e0.06
10	0.85	32	55	197	35	40	25	19	e1.4	e1.0	e0.08	e0.06
11	0.78	33	49	175	32	37	25	16	e3.0	e1.2	e0.08	e0.06
12	0.82	57	45	158	29	34	57	18	e2.4	e2.5	e0.08	e0.05
13	0.74	46	41	142	30	31	55	22	e2.0	e1.2	e0.07	e0.05
14	0.72	39	38	128	59	29	50	17	e2.2	e1.0	e0.07	9.2
15	0.70	44	35	114	58	27	106	13	e2.0	e0.80	e0.06	7.1
16	0.74	72	32	106	56	186	278	9.7	e1.7	e0.80	e0.06	0.37
17	1.00	55	30	95	51	271	259	11	e6.0	e0.70	e0.06	0.17
18	1.6	48	28	87	49	246	232	9.9	e3.0	e0.80	e0.06	0.12
19	1.1	45	26	83	44	221	209	6.3	e2.3	e0.90	e0.06	0.12
20	1.4	46	24	76	40	200	186	4.3	e2.0	e0.90	e0.05	0.14
21	1.8	71	22	71	38	183	162	2.9	e2.0	e0.60	e0.05	0.16
22	2.2	378	26	109	36	162	143	2.7	e1.8	e0.40	e0.08	0.18
23	2.7	294	51	110	34	146	125	2.3	e1.4	e0.30	e0.06	0.26
24	3.0	255	52	103	30	133	110	2.2	e1.2	e0.28	e0.06	0.17
25	3.4	223	219	94	33	122	97	2.2	e3.0	e0.25	e0.07	0.15
26	3.9	196	304	84	45	107	86	2.4	e1.6	e0.24	e0.10	0.16
27	5.2	173	277	75	45	96	78	2.3	e1.0	e0.25	e0.09	0.17
28	14	154	247	69	43	87	74	2.3	e1.2	e0.32	e0.08	0.19
29	13	139	219	63	---	89	66	2.2	e5.0	e0.25	e0.15	0.19
30	14	127	197	57	---	82	57	2.3	e18	e0.30	e0.10	0.20
31	15	---	177	53	---	73	---	2.2	---	e0.40	e0.08	---
<b>Total</b>	94.77	2,761	3,033	3,782	1,260	3,126	2,901	496.2	98.4	50.99	3.19	19.84
<b>Mean</b>	3.06	92.0	97.8	122	45.0	101	96.7	16.0	3.28	1.64	0.10	0.66
<b>Max</b>	15	378	304	219	65	271	278	49	18	10	0.34	9.2
<b>Min</b>	0.50	16	22	53	29	27	25	2.2	1.0	0.24	0.05	0.05
<b>Cfsm</b>	0.04	1.21	1.28	1.60	0.59	1.32	1.27	0.21	0.04	0.02	0.00	0.01
<b>In.</b>	0.05	1.35	1.48	1.84	0.61	1.52	1.41	0.24	0.05	0.02	0.00	0.01

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2007 <sup>a</sup>, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	18.1	24.4	37.0	64.6	95.5	127	88.9	39.2	37.3	25.6	31.6	28.4
<b>Max</b>	137	146	154	241	348	421	312	184	328	182	242	335
<b>(WY)</b>	(2000)	(1996)	(2003)	(1984)	(1998)	(1998)	(1993)	(1989)	(2006)	(2001)	(2003)	(1996)
<b>Min</b>	0.31	0.37	1.40	2.07	1.37	1.66	1.13	1.48	0.67	0.30	0.10	0.22
<b>(WY)</b>	(2006)	(2006)	(1992)	(2001)	(1992)	(1992)	(1992)	(2002)	(1981)	(2005)	(2007)	(2005)

02102192 BUCKHORN CREEK NEAR CORINTH, NC—Continued

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1981 - 2007 <sup>a</sup>	
<b>Annual total</b>	18,835.24		17,626.39			
<b>Annual mean</b>	51.6		48.3		51.2	
<b>Highest annual mean</b>					137	2003
<b>Lowest annual mean</b>					2.47	1981
<b>Highest daily mean</b>	1,500	Jun 15	378	Nov 22	1,940	Sep 6, 1996
<b>Lowest daily mean</b>	0.18	Aug 29	0.05	Aug 20	0.05	Aug 20, 2007
<b>Annual seven-day minimum</b>	0.21	Aug 23	0.06	Aug 15	0.06	Aug 15, 2007
<b>Maximum peak flow</b>			754	Nov 22	4,300	Sep 6, 1996
<b>Maximum peak stage</b>			6.56	Nov 22	16.79	Sep 6, 1996
<b>Instantaneous low flow</b>			NOT DETERMINED		<sup>b</sup> 0.05	May 10, 1988
<b>Annual runoff (cfsm)</b>	0.676		0.633		0.671	
<b>Annual runoff (inches)</b>	9.18		8.59		9.12	
<b>10 percent exceeds</b>	119		149		151	
<b>50 percent exceeds</b>	4.0		23		8.5	
<b>90 percent exceeds</b>	0.41		0.10		0.62	

<sup>a</sup> Regulated period only (1981-2007). See Remarks.

<sup>b</sup> See Remarks.

