

Water-Data Report 2008

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 mi².

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.—No estimated daily discharges. Records poor. Since December 1, 1980, considerable regulation by Harris Lake. Maximum discharge prior to regulation: 6,920 ft³/s, February 2, 1973; gage height: 20.02 ft. Minimum discharge prior to regulation: 0.01 ft³/s, September 2, 1976. Minimum discharge for period of record and current water year also occurred July 17-19, 30, 2008.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.20	0.39	1.1	0.75	3.0	3.7	74	35	1.5	0.09	0.26	0.29
2	0.22	0.32	1.1	0.55	3.0	3.7	77	30	1.2	0.08	0.13	0.16
3	0.22	0.34	1.2	0.52	2.7	3.9	47	26	0.65	0.05	0.09	0.13
4	0.23	0.37	1.2	0.42	2.8	5.3	43	24	0.53	0.05	0.09	0.12
5	0.26	0.39	1.1	0.34	3.0	9.2	176	22	0.48	0.08	0.08	0.10
6	0.29	0.42	1.1	0.30	3.4	6.6	184	18	0.43	0.13	0.07	181
7	0.31	0.39	1.1	0.57	4.3	28	171	14	0.38	0.17	0.07	3.9
8	0.31	0.41	1.1	0.82	4.7	17	147	14	0.33	0.14	0.08	0.84
9	0.21	0.49	1.2	0.99	4.8	5.5	125	14	0.29	0.16	0.06	0.55
10	0.21	0.57	1.2	1.3	4.9	3.1	108	15	0.25	0.16	0.06	0.67
11	0.20	0.57	1.3	1.9	4.5	2.9	93	12	0.24	0.13	0.10	0.54
12	0.18	0.59	1.3	2.2	5.0	4.6	79	15	0.22	0.09	0.06	0.36
13	0.19	0.64	1.3	2.1	7.1	5.6	72	13	0.22	0.07	0.08	0.26
14	0.18	0.66	1.3	2.0	3.7	9.0	62	9.0	0.21	0.06	0.11	0.19
15	0.17	1.1	1.5	1.9	3.3	20	57	7.2	0.85	0.06	0.25	0.14
16	0.19	1.5	7.1	1.9	5.3	60	44	8.6	0.78	0.05	0.66	0.24
17	0.18	1.2	2.4	2.1	4.8	49	38	7.3	0.41	0.05	0.17	0.33
18	0.21	1.1	1.6	2.1	6.4	44	32	5.3	0.21	0.05	0.13	0.18
19	0.26	1.2	1.3	1.8	4.8	43	28	7.5	0.19	0.06	0.11	0.13
20	0.30	1.2	1.1	2.5	4.2	58	29	6.1	0.26	0.08	0.10	0.12
21	0.27	1.1	1.0	1.8	3.8	48	31	7.1	0.43	0.06	0.10	0.09
22	0.22	1.0	0.92	1.6	4.5	42	43	5.6	0.27	0.07	0.09	0.08
23	0.22	0.96	0.93	1.7	4.1	39	41	4.4	0.28	0.10	0.09	0.10
24	1.3	0.90	1.1	1.8	3.4	35	35	4.4	0.25	0.12	0.08	0.13
25	0.52	0.93	0.97	2.0	2.8	26	31	2.3	0.17	0.10	0.07	0.94
26	4.0	1.4	2.5	1.8	3.2	20	27	1.4	0.14	0.08	0.09	1.2
27	70	1.9	2.6	1.8	4.4	17	25	0.88	0.12	0.07	1.6	0.23
28	1.5	1.5	1.5	1.8	3.6	14	31	4.7	0.09	0.08	0.54	0.25
29	0.69	1.2	1.5	1.9	3.4	19	47	4.7	0.08	0.06	0.24	0.15
30	0.46	1.2	13	2.1	---	18	41	2.5	0.10	0.19	0.17	0.11
31	0.39	---	5.4	2.1	---	39	---	1.6	---	0.48	0.31	---
Total	84.09	25.94	63.02	47.46	118.9	699.1	2,038	342.58	11.56	3.22	6.14	193.53
Mean	2.71	0.86	2.03	1.53	4.10	22.6	67.9	11.1	0.39	0.10	0.20	6.45
Max	70	1.9	13	2.5	7.1	60	184	35	1.5	0.48	1.6	181
Min	0.17	0.32	0.92	0.30	2.7	2.9	25	0.88	0.08	0.05	0.06	0.08
Cfs/m	0.04	0.01	0.03	0.02	0.05	0.30	0.89	0.14	0.01	0.00	0.00	0.08
In.	0.04	0.01	0.03	0.02	0.06	0.34	0.99	0.17	0.01	0.00	0.00	0.09

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1981 - 2008^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	17.6	23.6	35.7	62.3	92.2	123	88.1	38.2	36.0	24.7	30.5	27.6
Max	137	146	154	241	348	421	312	184	328	182	242	335
(WY)	(2000)	(1996)	(2003)	(1984)	(1998)	(1998)	(1993)	(1989)	(2006)	(2001)	(2003)	(1996)
Min	0.31	0.37	1.40	1.53	1.37	1.66	1.13	1.48	0.39	0.10	0.10	0.22
(WY)	(2006)	(2006)	(1992)	(2008)	(1992)	(1992)	(1992)	(2002)	(2008)	(2008)	(2007)	(2005)

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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1981 - 2008 ^a	
Annual total	11,910.67		3,633.54			
Annual mean	32.6		9.93		49.7	
Highest annual mean					137	2003
Lowest annual mean					2.47	1981
Highest daily mean	278	Apr 16	184	Apr 6	1,940	Sep 6, 1996
Lowest daily mean	0.05	Aug 20	0.05	Jul 3	0.05	Aug 20, 2007
Annual seven-day minimum	0.06	Aug 15	0.06	Jul 13	0.06	Aug 15, 2007
Maximum peak flow			619	Sep 6	4,300	Sep 6, 1996
Maximum peak stage			5.97	Sep 6	16.79	Sep 6, 1996
Instantaneous low flow			^b 0.04	Jul 4	^b 0.04	Jul 4, 2008
Annual runoff (cfs)	0.428		0.130		0.652	
Annual runoff (inches)	5.81		1.77		8.86	
10 percent exceeds	108		31		147	
50 percent exceeds	2.2		1.1		7.9	
90 percent exceeds	0.10		0.09		0.57	

^aRegulated period only (1981-2008). See Remarks.^bSee Remarks.