

CAPE FEAR RIVER BASIN

0209736050 BATTLE BRANCH NEAR CHAPEL HILL, NC

LOCATION.--Lat 35°55'02", long 79°01'57", Orange County, Hydrologic Unit 03030002, 0.8 mi upstream from mouth, and 1.2 mi east of Chapel Hill.

DRAINAGE AREA.--0.42 mi².

WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--October 1996 to September 2001 (discontinued). Prior to October 1994, published as "Little Creek Tributary near Chapel Hill, NC".

GAGE.--Water-stage recorder. Datum of gage is 376 ft above sea level, from topographic map. Water stage recorder was at present site, at datum of 377 ft, Feb. 1987 to Sept. 1996. Satellite telemetry at station.

REMARKS.--Records poor. No flow occurs at times during most years.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	.07	.05	e.03	.10	.04	.02	4.4	.02	9.0	.02	.00	.04
2	.06	.04	e.02	.11	.03	.02	2.4	.02	2.7	.02	.00	.02
3	.04	.05	.02	.12	.03	.49	1.8	.02	1.3	.02	.00	.02
4	.05	.05	.02	.06	.03	3.0	1.2	.02	.82	.19	.00	.09
5	.03	.05	.02	.06	.48	1.2	.54	.02	.35	.39	.00	.02
6	.03	.05	.02	.20	.06	.22	.35	.02	.27	.01	.00	.02
7	.02	.06	.02	.06	.03	.13	.24	.01	.32	.01	.00	.02
8	.02	.10	.02	.22	.02	.08	.16	.01	.31	.85	.00	.02
9	.02	.10	.02	.08	.03	.05	.12	.02	.26	.04	.00	.02
10	.02	.13	.02	.09	.10	.04	.10	.02	.20	.01	.18	.14
11	.02	.11	e.02	.07	.03	.04	.08	.02	.22	.01	7.6	.02
12	.02	.12	e.02	.08	.86	.04	.07	.79	.28	.01	1.3	.01
13	.01	.14	.03	.08	.57	.07	.07	.08	1.4	.01	.25	.01
14	.01	1.1	e.03	.11	.33	.04	.05	.06	1.7	.01	.09	.02
15	.01	.04	.04	.11	.11	.65	.05	.74	.59	.01	.05	.01
16	.01	.03	.36	.10	.15	.03	.05	2.1	.17	.01	.04	.01
17	.01	.15	2.5	.10	4.6	.02	.09	.14	.11	.01	.04	.01
18	.01	.06	.11	.33	.41	.02	.04	.51	.09	.01	.19	.02
19	.01	1.1	.64	.85	.08	.02	.04	.06	.09	.02	.26	.02
20	.01	1.8	.37	3.3	.05	3.0	.04	.05	.09	.01	.12	.05
21	.01	.48	.07	.47	.03	4.4	.04	.05	.36	.01	.06	.09
22	.01	.23	.05	.10	.26	1.5	.04	.67	1.3	.01	.05	.03
23	.01	.11	.10	.08	.09	.33	.04	.84	.59	.01	.05	.03
24	.02	.10	.11	.05	.04	.10	.03	.12	.05	.29	.96	1.9
25	.26	2.0	.10	.05	.52	.05	1.2	.16	2.4	.01	.04	.08
26	.03	.20	.10	.04	.06	.04	.04	1.0	.14	.02	.02	.04
27	.03	e.04	.11	.05	.03	.03	.02	.12	.06	1.7	.04	.02
28	.03	e.04	.11	.04	.03	.02	.02	.51	.04	.00	.03	.02
29	.02	e.03	.11	.05	---	12	.02	.68	.03	.01	.04	.02
30	.03	e.03	.11	.62	---	5.4	.02	.14	.02	.00	1.3	.02
31	.03	---	.10	.04	---	3.9	---	.09	---	.00	.27	---
TOTAL	0.96	8.59	5.40	7.82	9.10	36.95	13.36	9.11	25.26	3.73	12.98	2.84
MEAN	.031	.29	.17	.25	.32	1.19	.45	.29	.84	.12	.42	.095
MAX	.26	2.0	2.5	3.3	4.6	12	4.4	2.1	9.0	1.7	7.6	1.9
MIN	.01	.03	.02	.04	.02	.02	.02	.01	.02	.00	.00	.01
CFSM	.07	.68	.41	.60	.77	2.84	1.06	.70	2.00	.29	1.00	.23
IN.	.09	.76	.48	.69	.81	3.27	1.18	.81	2.24	.33	1.15	.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001,® BY WATER YEAR (WY)

	1997	1998	1999	2000	2001
MEAN	.42	.40	.32	1.05	.88
MAX	.69	.52	.52	1.76	1.92
(WY)	1997	1997	1999	1999	1998
MIN	.031	.25	.17	.25	.32
(WY)	2001	1999	2001	2001	2001

SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1997 - 2001®

ANNUAL TOTAL	216.25	136.10	
ANNUAL MEAN	.59	.37	.70
HIGHEST ANNUAL MEAN			1.26
LOWEST ANNUAL MEAN			.37
HIGHEST DAILY MEAN	11 Jul 24	12 Mar 29	70 Sep 5 1999
LOWEST DAILY MEAN	.01 Oct 13	.00 Jul 28	.00 Jul 27 1999
ANNUAL SEVEN-DAY MINIMUM	.01 Oct 13	.00 Jul 30	.00 Jul 30 1999
MAXIMUM PEAK FLOW		293 Aug 11	NOT DETERMINED
MAXIMUM PEAK STAGE		5.17 Aug 11	5.42 Sep 6 1999
INSTANTANEOUS LOW FLOW		.00* Jul 28	.00* Jul 27 1999
ANNUAL RUNOFF (CFSM)	1.41	.89	1.66
ANNUAL RUNOFF (INCHES)	19.15	12.05	22.62
10 PERCENT EXCEEDS	1.4	.85	1.2
50 PERCENT EXCEEDS	.21	.05	.16
90 PERCENT EXCEEDS	.03	.01	.03

e Estimated.
® See PERIOD OF RECORD.
* See REMARKS.

0209736050 BATTLE BRANCH NEAR CHAPEL HILL, NC--Continued

