

## CAPE FEAR RIVER BASIN

02108000 NORTHEAST CAPE FEAR RIVER NEAR CHINQUAPIN, NC

LOCATION.--Lat 34°49'40", long 77°50'00", Duplin County, Hydrologic Unit 03030007, on right bank 540 ft downstream of bridge on State Highway 41, 0.5 mi downstream of Muddy Creek, and 1.2 mi west of Chinquapin.

DRAINAGE AREA.--599 mi<sup>2</sup>.

PERIOD OF RECORD.--July 1940 to current year.

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

GAGE.--Water-stage recorder. Datum of gage is 17.28 ft above NGVD of 1929 (levels by U.S. Army Corps of Engineers). Satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Oct. 11, 1954. Minimum discharge for current water year also occurred Aug. 24, 25.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1908 reached a stage of 22.6 ft at old bridge site 1,000 ft upstream from gage. Flood in 1928 reached a stage 0.8 ft lower than the flood in 1908, from information by North Carolina State Highway Commission.

DISCHARGE, CUBIC FEET PER SECOND, WATER YEAR OCTOBER 2001 TO SEPTEMBER 2002  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	180	36	124	72	788	298	783	222	47	104	190	114
2	169	35	118	76	644	295	923	191	47	80	216	160
3	154	35	111	88	544	1500	1050	164	48	60	217	240
4	133	35	108	117	479	2470	1210	146	47	46	191	366
5	116	30	105	152	426	2750	1310	167	43	36	160	439
6	104	30	101	214	381	2520	1280	209	39	33	139	450
7	100	32	100	433	431	2120	1200	224	73	44	119	423
8	133	29	96	560	711	1580	1100	220	58	45	98	381
9	146	29	90	663	899	1160	905	199	43	34	78	337
10	156	29	86	666	967	897	700	167	36	30	64	287
11	160	31	e86	615	981	721	579	139	32	37	52	246
12	153	29	e100	547	949	607	507	119	29	46	44	225
13	138	29	e110	552	899	653	456	104	26	40	36	195
14	122	30	111	596	842	1010	422	101	26	48	31	169
15	109	31	114	621	767	1240	406	111	57	62	29	150
16	97	31	117	628	685	1390	389	104	49	55	27	138
17	86	32	111	599	616	1440	366	95	41	49	24	128
18	79	32	111	554	554	1430	331	87	38	49	23	114
19	73	32	118	506	499	1400	320	89	37	47	22	102
20	67	33	116	483	450	1320	508	110	34	38	21	91
21	64	34	108	467	441	1320	760	110	28	30	21	80
22	61	34	99	476	467	1320	944	105	31	26	20	71
23	56	34	92	519	475	1220	1050	98	148	23	20	68
24	53	42	89	844	457	1060	990	88	141	21	19	100
25	49	65	87	1060	425	915	777	82	102	22	20	89
26	46	88	86	1160	387	804	548	73	90	37	21	83
27	43	108	84	1180	350	791	414	64	76	50	22	91
28	41	122	81	1150	321	806	342	57	81	87	28	85
29	41	130	78	1120	---	813	294	51	94	113	37	75
30	39	130	76	1080	---	771	254	48	117	130	45	64
31	37	---	75	955	---	703	---	46	---	153	71	---
TOTAL	3005	1417	3088	18753	16835	37324	21118	3790	1758	1675	2105	5561
MEAN	96.94	47.23	99.61	604.9	601.2	1204	703.9	122.3	58.60	54.03	67.90	185.4
MAX	180	130	124	1180	981	2750	1310	224	148	153	217	450
MIN	37	29	75	72	321	295	254	46	26	21	19	64
CFSM	0.16	0.08	0.17	1.01	1.00	2.01	1.18	0.20	0.10	0.09	0.11	0.31
IN.	0.19	0.09	0.19	1.16	1.05	2.32	1.31	0.24	0.11	0.10	0.13	0.35

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2002, BY WATER YEAR (WY)

MEAN	461.4	418.8	652.9	1062	1206	1235	836.5	457.2	391.1	533.5	662.0	683.8
MAX	3237	1852	2225	2548	4399	3506	2958	1901	1953	3922	2681	7329
(WY)	2000	1948	1949	1993	1998	1983	1973	1969	1961	1962	1955	1999
MIN	7.59	15.6	59.6	158	249	261	145	64.9	17.3	25.9	13.8	11.0
(WY)	1955	1955	1955	1955	1955	1955	1986	1995	1994	1954	1954	1954

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1940 - 2002	
ANNUAL TOTAL	169152		116429			
ANNUAL MEAN	463.4		319.0		715.8	
HIGHEST ANNUAL MEAN					1243	
LOWEST ANNUAL MEAN					279	
HIGHEST DAILY MEAN	5590	Mar 23	2750	Mar 5	29900	Sep 18 1999
LOWEST DAILY MEAN	24	Jul 23	19	Aug 24	5.3	Oct 10 1954
ANNUAL SEVEN-DAY MINIMUM	27	Jul 19	20	Aug 20	5.5	Oct 8 1954
MAXIMUM PEAK FLOW			2780	Mar 5	30700	Sep 18 1999
MAXIMUM PEAK STAGE			11.22	Mar 5	23.51	Sep 18 1999
INSTANTANEOUS LOW FLOW			19*	Aug 23	5.3*	Oct 10 1954
ANNUAL RUNOFF (CFSM)	0.77		0.53		1.19	
ANNUAL RUNOFF (INCHES)	10.50		7.23		16.24	
10 PERCENT EXCEEDS	981		946		1690	
50 PERCENT EXCEEDS	286		111		400	
90 PERCENT EXCEEDS	41		31		58	

e Estimated.  
\* See REMARKS.

02108000 NORTHEAST CAPE FEAR RIVER NEAR CHINQUAPIN, NC--Continued

