

## 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 sea level (levels by U.S. Army Corps of Engineers). Satellite telemetry at station.

REMARKS.--Records fair except those for estimated daily discharges, which are poor. Minimum discharge for period of record also occurred Oct. 11, 1954.

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 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1720	91	561	395	282	690	1840	285	372	306	902	505
2	1480	89	503	382	275	647	1900	267	774	264	956	494
3	1280	89	481	369	270	604	1800	247	1090	221	880	473
4	1100	89	517	355	271	752	1640	228	1150	186	775	428
5	932	88	563	343	356	1030	1480	212	1110	166	671	380
6	771	88	585	338	451	1100	1350	189	947	159	561	344
7	636	92	575	334	491	1060	1210	164	677	136	454	314
8	529	93	551	328	489	976	1090	141	461	109	341	292
9	452	95	522	324	461	857	978	118	364	88	261	274
10	398	93	509	318	425	745	871	103	333	81	209	260
11	355	90	530	310	388	647	779	92	320	76	152	276
12	324	87	553	302	361	570	699	84	289	71	e150	282
13	298	86	585	302	389	524	635	101	258	69	e300	280
14	280	88	610	302	425	482	580	116	234	58	e400	273
15	262	105	661	303	441	475	529	110	322	49	e550	254
16	244	139	666	311	446	633	488	158	552	43	e650	215
17	229	165	657	320	472	706	455	199	798	37	644	171
18	211	189	627	315	594	714	434	208	930	34	637	138
19	200	221	581	312	665	659	420	218	1010	29	953	110
20	185	297	543	319	685	604	402	214	1030	26	1160	99
21	170	364	505	353	657	2270	386	191	983	25	1280	100
22	158	403	475	377	633	4640	364	161	934	25	1310	99
23	147	425	450	382	785	5590	342	133	881	24	1310	97
24	137	427	426	375	853	5560	319	111	829	30	1320	96
25	122	423	403	364	862	5140	309	93	744	32	1320	118
26	113	584	384	345	838	4480	328	78	631	41	1280	150
27	106	679	370	324	779	3670	352	80	507	61	1160	175
28	104	713	382	307	719	2800	358	107	417	71	980	185
29	100	697	408	297	---	2070	344	213	370	99	758	191
30	96	633	413	286	---	1800	312	345	340	343	600	192
31	94	---	408	284	---	1760	---	383	---	695	505	---
TOTAL	13233	7722	16004	10276	14763	54255	22994	5349	19657	3654	23429	7265
MEAN	427	257	516	331	527	1750	766	173	655	118	756	242
MAX	1720	713	666	395	862	5590	1900	383	1150	695	1320	505
MIN	94	86	370	284	270	475	309	78	234	24	150	96
CFSM	.71	.43	.86	.55	.88	2.92	1.28	.29	1.09	.20	1.26	.40
IN.	.82	.48	.99	.64	.92	3.37	1.43	.33	1.22	.23	1.46	.45

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2001, BY WATER YEAR (WY)

MEAN	467	425	662	1070	1216	1235	839	463	397	541	672	692
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 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1940 - 2001

ANNUAL TOTAL	260453	198601	
ANNUAL MEAN	712	544	722
HIGHEST ANNUAL MEAN			1243
LOWEST ANNUAL MEAN			279
HIGHEST DAILY MEAN	3320	Jan 28	5590
LOWEST DAILY MEAN	30	Jul 21	24
ANNUAL SEVEN-DAY MINIMUM	38	Jul 15	27
MAXIMUM PEAK FLOW			5680
MAXIMUM PEAK STAGE			14.02
INSTANTANEOUS LOW FLOW			22
ANNUAL RUNOFF (CFSM)	1.19	.91	1.21
ANNUAL RUNOFF (INCHES)	16.18	12.33	16.38
10 PERCENT EXCEEDS	1570	1040	1700
50 PERCENT EXCEEDS	481	370	404
90 PERCENT EXCEEDS	90	93	59

e Estimated.

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

