

## 02108000 NORTHEAST CAPE FEAR RIVER NEAR CHINQUAPIN, NC

LOCATION.--Lat 34°49'41", long 77°49'59", 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 Oct. 11.

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 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	56	125	349	507	350	1,250	980	513	2,980	393	841	251
2	50	139	318	565	356	1,270	885	462	2,560	640	926	215
3	46	133	292	591	350	1,270	806	415	2,230	2,100	911	190
4	42	125	272	610	343	1,230	738	386	2,000	3,230	809	171
5	39	118	286	600	333	1,150	686	367	e1,850	3,680	1,130	207
6	35	125	357	585	321	1,160	643	355	e1,600	3,720	1,310	214
7	33	147	403	552	391	1,270	607	410	1,360	4,110	1,330	210
8	31	160	420	515	545	1,330	684	457	1,260	4,220	1,320	205
9	29	165	423	486	594	1,300	1,110	465	1,210	3,750	1,300	196
10	27	167	420	457	628	1,230	2,160	458	1,080	2,970	1,520	183
11	27	163	440	431	763	1,130	3,570	445	895	2,080	2,210	173
12	31	167	470	408	809	1,100	4,840	411	729	1,430	2,580	163
13	48	241	492	389	772	1,140	5,180	376	612	1,230	2,530	154
14	53	372	594	373	707	1,160	5,010	351	520	1,830	2,290	147
15	89	425	626	359	633	1,080	4,570	325	437	3,140	1,990	141
16	144	470	631	340	593	952	3,890	292	449	4,770	1,650	134
17	162	560	598	331	1,080	958	3,040	263	1,100	5,460	1,560	125
18	165	709	555	330	1,450	1,050	2,190	239	1,620	5,170	1,750	142
19	163	783	517	325	1,590	1,060	1,570	233	3,330	4,640	1,810	256
20	146	813	513	322	1,570	1,140	1,190	259	4,290	4,890	1,840	314
21	108	806	535	318	1,460	1,850	946	258	4,350	5,200	1,900	323
22	82	773	542	320	1,300	2,910	811	255	3,740	5,150	1,870	317
23	70	719	531	318	1,330	3,770	733	585	3,020	4,420	1,640	381
24	62	663	514	308	1,380	3,950	659	1,400	2,490	3,810	1,310	516
25	56	613	603	292	1,340	3,660	600	1,910	2,070	3,820	1,030	463
26	55	566	654	301	1,230	3,130	603	2,160	1,630	3,710	814	399
27	53	514	656	302	1,130	2,540	645	2,420	1,210	3,120	638	374
28	52	462	625	299	1,190	1,970	631	3,020	830	2,400	512	489
29	52	419	589	290	---	1,500	597	3,520	587	1,730	424	497
30	67	382	552	296	---	1,200	558	3,560	465	1,220	356	409
31	102	---	516	329	---	1,080	---	3,320	---	929	300	---
TOTAL	2,175	12,024	15,293	12,449	24,538	50,790	51,132	29,890	52,504	98,962	42,401	7,959
MEAN	70.2	401	493	402	876	1,638	1,704	964	1,750	3,192	1,368	265
MAX	165	813	656	610	1,590	3,950	5,180	3,560	4,350	5,460	2,580	516
MIN	27	118	272	290	321	952	558	233	437	393	300	125
CFSM	0.12	0.67	0.82	0.67	1.46	2.74	2.85	1.61	2.92	5.33	2.28	0.44
IN.	0.14	0.75	0.95	0.77	1.52	3.15	3.18	1.86	3.26	6.15	2.63	0.49

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2003, BY WATER YEAR (WY)

MEAN	455	419	650	1,052	1,201	1,241	850	465	413	576	673	677
MAX	3,237	1,852	2,225	2,548	4,399	3,506	2,958	1,901	1,953	3,922	2,681	7,329
(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)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1940 - 2003	
ANNUAL TOTAL	138,411		400,117			
ANNUAL MEAN	379		1,096		722	
HIGHEST ANNUAL MEAN					1,243	1973
LOWEST ANNUAL MEAN					279	1951
HIGHEST DAILY MEAN	2,750	Mar 5	5,460	Jul 17	29,900	Sep 18, 1999
LOWEST DAILY MEAN	19	Aug 24	27	Oct 10	5.3	Oct 10, 1954
ANNUAL SEVEN-DAY MINIMUM	20	Aug 20	30	Oct 6	5.5	Oct 8, 1954
MAXIMUM PEAK FLOW			5,520	Jul 17	30,700	Sep 18, 1999
MAXIMUM PEAK STAGE			13.92	Jul 17	23.51	Sep 18, 1999
INSTANTANEOUS LOW FLOW			26*	Oct 10	5.3*	Oct 10, 1954
ANNUAL RUNOFF (CFSM)	0.63		1.83		1.21	
ANNUAL RUNOFF (INCHES)	8.60		24.85		16.37	
10 PERCENT EXCEEDS	946		3,070		1,700	
50 PERCENT EXCEEDS	191		600		404	
90 PERCENT EXCEEDS	35		143		58	

e Estimated.  
 \* See REMARKS.

