

## 02108000 NORTHEAST CAPE FEAR RIVER NEAR CHINQUAPIN, NC

LOCATION.--Lat 34°49'44", long 77°49'56", 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.--No estimated daily discharges. Records good. Minimum discharge for period of record also occurred Oct. 11, 1954. Minimum discharge for current water year also occurred Sept. 14.

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 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	319	118	992	599	637	1,040	875	154	127	1,230	409	43
2	331	112	913	541	633	1,070	970	142	134	1,240	631	37
3	318	108	816	500	587	1,020	1,200	130	184	1,270	599	32
4	310	104	724	466	601	894	1,220	120	249	994	462	27
5	295	111	647	437	629	753	1,140	111	351	786	397	23
6	276	120	579	417	614	636	1,010	233	381	568	387	20
7	252	118	522	398	575	557	831	863	324	346	353	17
8	223	114	478	375	523	508	875	1,220	274	213	281	15
9	197	112	441	354	473	487	946	1,390	225	147	211	13
10	176	109	487	332	459	459	885	1,440	237	115	183	12
11	157	106	578	315	448	433	783	1,360	354	91	179	10
12	140	112	584	302	420	410	664	1,170	375	77	238	9.7
13	130	325	573	294	392	384	574	1,120	335	71	179	9.4
14	126	643	531	366	363	354	883	1,060	257	74	131	20
15	152	888	472	780	342	327	1,270	821	188	85	108	109
16	231	987	421	969	331	313	1,390	617	141	96	96	227
17	275	961	382	1,050	320	388	1,390	568	110	107	103	313
18	291	829	357	1,010	315	563	1,250	511	88	106	95	296
19	275	658	335	875	302	685	1,020	443	76	99	88	242
20	236	527	318	745	284	739	799	366	64	82	75	189
21	205	442	300	674	274	755	655	386	53	119	68	149
22	185	376	288	617	285	730	547	408	46	233	71	125
23	171	363	289	575	290	774	455	402	42	289	78	106
24	162	510	376	524	351	904	382	374	36	273	81	89
25	153	641	414	472	662	1,010	324	329	32	205	79	85
26	146	695	460	436	897	1,110	278	310	36	136	85	73
27	145	668	715	409	938	1,090	244	280	98	91	85	68
28	138	744	807	377	936	1,040	214	238	82	70	75	64
29	130	921	808	348	---	1,110	188	190	194	60	66	61
30	126	997	752	391	---	1,080	168	154	905	71	56	65
31	122	---	674	549	---	970	---	137	---	177	49	---
TOTAL	6,393	13,519	17,033	16,497	13,881	22,593	23,430	17,047	5,998	9,521	5,998	2,549.1
MEAN	206	451	549	532	496	729	781	550	200	307	193	85.0
MAX	331	997	992	1,050	938	1,110	1,390	1,440	905	1,270	631	313
MIN	122	104	288	294	274	313	168	111	32	60	49	9.4
CFSM	0.34	0.75	0.92	0.89	0.83	1.22	1.30	0.92	0.33	0.51	0.32	0.14
IN.	0.40	0.84	1.06	1.02	0.86	1.40	1.46	1.06	0.37	0.59	0.37	0.16

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2005, BY WATER YEAR (WY)

MEAN	454	430	660	1,035	1,187	1,224	847	476	410	566	673	672
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 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1940 - 2005	
ANNUAL TOTAL	239,051		154,459.1		719	
ANNUAL MEAN	653		423		1,243	
HIGHEST ANNUAL MEAN					1973	
LOWEST ANNUAL MEAN					279	
HIGHEST DAILY MEAN	4,150	Aug 17	1,440	May 10	29,900	Sep 18, 1999
LOWEST DAILY MEAN	46	Aug 1	9.4	Sep 13	5.3	Oct 10, 1954
ANNUAL SEVEN-DAY MINIMUM	63	Jul 27	12	Sep 7	5.5	Oct 8, 1954
MAXIMUM PEAK FLOW			1,440	May 10	30,700	Sep 18, 1999
MAXIMUM PEAK STAGE			8.94	May 10	23.51	Sep 18, 1999
INSTANTANEOUS LOW FLOW			8.9*	Sep 13	5.3*	Oct 10, 1954
ANNUAL RUNOFF (CFSM)	1.09		0.706		1.20	
ANNUAL RUNOFF (INCHES)	14.85		9.59		16.30	
10 PERCENT EXCEEDS	1,400		969		1,690	
50 PERCENT EXCEEDS	474		332		406	
90 PERCENT EXCEEDS	130		75		60	

\* See REMARKS.

