

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 mi².

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. 2.

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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	361	3,620	455	724	600	1,770	259	678	239	578	46	1,680
2	318	3,110	418	678	550	1,580	277	1,270	274	639	63	1,580
3	273	2,370	385	635	524	1,370	292	1,970	277	681	130	1,380
4	235	1,740	370	595	545	1,240	295	3,120	252	596	184	1,170
5	201	1,320	560	563	539	1,160	282	4,020	296	428	203	1,020
6	176	1,200	719	539	531	1,060	256	4,070	539	330	327	874
7	157	1,610	771	514	544	937	232	3,690	668	283	394	943
8	158	1,720	764	493	546	813	215	2,970	616	257	403	1,030
9	476	1,570	704	484	525	709	199	2,370	473	220	289	1,210
10	804	1,350	672	501	498	626	184	1,900	363	157	194	1,370
11	996	1,140	1,450	502	469	556	215	1,420	348	131	133	1,510
12	1,060	930	1,990	490	498	499	553	1,040	465	153	95	1,530
13	1,050	760	2,050	486	766	452	980	733	575	137	339	1,390
14	934	634	2,130	473	925	411	1,400	565	582	145	1,220	1,150
15	812	551	2,620	460	1,140	386	1,770	476	503	110	e2,240	967
16	679	497	3,090	444	1,370	424	1,930	450	396	87	e3,570	791
17	560	452	3,120	423	1,520	538	1,970	449	488	73	e4,150	675
18	479	415	2,940	416	1,660	573	1,840	402	796	63	4,030	708
19	419	424	2,550	426	1,710	556	1,560	333	945	56	3,410	751
20	367	843	2,200	420	1,610	525	1,240	276	906	51	2,550	746
21	321	1,010	1,890	411	1,450	480	928	233	755	76	1,880	728
22	280	1,030	1,610	404	1,280	429	663	197	533	99	1,400	702
23	247	1,020	1,370	390	1,110	382	494	169	378	88	1,140	650
24	215	942	1,250	370	986	345	395	156	324	79	942	558
25	192	824	1,220	354	904	315	326	215	340	105	780	467
26	180	708	1,170	e400	893	291	278	246	402	121	658	390
27	173	637	1,110	e510	1,320	270	341	231	399	97	583	337
28	191	595	1,030	589	1,700	254	479	181	327	74	607	321
29	1,240	555	941	669	1,830	245	552	139	389	60	672	322
30	2,720	499	853	678	---	235	590	142	472	51	1,100	312
31	3,630	---	780	653	---	237	---	188	---	48	1,520	---
TOTAL	19,904	34,076	43,182	15,694	28,543	19,668	20,995	34,299	14,320	6,073	35,252	27,262
MEAN	642	1,136	1,393	506	984	634	700	1,106	477	196	1,137	909
MAX	3,630	3,620	3,120	724	1,830	1,770	1,970	4,070	945	681	4,150	1,680
MIN	157	415	370	354	469	235	184	139	239	48	46	312
CFSM	1.07	1.90	2.33	0.85	1.64	1.06	1.17	1.85	0.80	0.33	1.90	1.52
IN.	1.24	2.12	2.68	0.97	1.77	1.22	1.30	2.13	0.89	0.38	2.19	1.69

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1940 - 2004, BY WATER YEAR (WY)

MEAN	458	430	662	1,043	1,198	1,232	848	475	414	570	680	681
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1940 - 2004	
ANNUAL TOTAL	467,787		299,268		723	
ANNUAL MEAN	1,282		818		1,243	
HIGHEST ANNUAL MEAN					1973	
LOWEST ANNUAL MEAN					279	
HIGHEST DAILY MEAN	5,460	Jul 17	4,150	Aug 17	29,900	Sep 18, 1999
LOWEST DAILY MEAN	125	Sep 17	46	Aug 1	5.3	Oct 10, 1954
ANNUAL SEVEN-DAY MINIMUM	144	Sep 12	63	Jul 27	5.5	Oct 8, 1954
MAXIMUM PEAK FLOW			4,180	Aug 17	30,700	Sep 18, 1999
MAXIMUM PEAK STAGE			12.79	Aug 17	23.51	Sep 18, 1999
INSTANTANEOUS LOW FLOW			45*	Aug 1	5.3*	Oct 10, 1954
ANNUAL RUNOFF (CFSM)	2.14		1.37		1.21	
ANNUAL RUNOFF (INCHES)	29.05		18.59		16.41	
10 PERCENT EXCEEDS	3,130		1,750		1,700	
50 PERCENT EXCEEDS	853		552		409	
90 PERCENT EXCEEDS	269		181		59	

* See REMARKS.

e Estimated.

