

CAPE FEAR RIVER BASIN

02106500 BLACK RIVER NEAR TOMAHAWK, NC

LOCATION.--Lat 34°45'17", long 78°17'21", Sampson County, Hydrologic Unit 03030006, on left bank 30 ft upstream from bridge on State Highway 411, 0.2 mi downstream of Clear Run Swamp, and 3.8 mi northeast of Tomahawk.

DRAINAGE AREA.--676 mi².

PERIOD OF RECORD.--October 1951 to current year.

REVISED RECORDS.--WSP 1723: 1955(M). WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 24.61 ft above NGVD of 1929. Nonrecording gage on downstream side of bridge Oct. 1, 1951 to June 29, 1961. Water-stage recorder was at present site at datum of 24.26 ft June 30, 1961 to Sept. 30, 1964. Satellite telemetry at station

REMARKS.--No estimated daily discharges. Records good. Maximum gage height for period of record, from floodmarks. Minimum discharge for current water year also occurred on Aug. 24.

EXTREMES OUTSIDE PERIOD OF RECORD.--Flood in 1928 reached a stage of 22.0 ft, present datum; discharge, 14,500 ft³/s and floods in 1945 and 1948 reached a stage of 17.6 ft, present datum; discharge, 5,420 ft³/s, from information furnished 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	257	109	362	176	1240	388	1000	268	97	126	124	939
2	258	114	345	173	1150	390	1420	252	90	113	123	981
3	253	107	321	194	996	863	1610	234	82	97	99	908
4	242	110	293	238	809	1240	1720	225	82	79	76	738
5	229	108	269	271	689	1260	1930	271	73	63	61	528
6	218	108	251	353	607	1110	2140	304	68	53	51	396
7	227	108	237	778	677	869	2140	280	66	44	43	318
8	259	106	228	996	1050	725	2020	256	61	38	38	267
9	255	105	224	950	1230	650	1790	240	58	34	33	233
10	245	104	216	827	1280	601	1510	224	55	32	29	212
11	233	102	230	722	1260	550	1210	207	51	45	26	186
12	217	98	263	657	1220	497	895	189	47	50	24	159
13	201	95	267	723	1130	591	724	173	44	57	22	132
14	186	97	266	885	1060	1010	666	203	45	71	22	120
15	200	95	266	881	1000	1190	725	254	117	94	22	227
16	205	96	252	858	931	1320	771	196	144	94	21	392
17	191	97	243	790	827	1470	792	171	85	82	20	311
18	187	99	245	700	725	1600	808	158	65	69	19	274
19	177	98	248	634	649	1480	763	181	56	58	18	257
20	173	101	246	611	592	1080	669	223	50	48	19	231
21	164	104	238	646	594	913	641	205	46	41	19	202
22	157	104	228	692	612	973	591	185	42	35	18	175
23	151	105	217	754	570	936	537	173	52	36	17	156
24	148	155	209	1110	533	816	468	162	64	33	16	142
25	141	411	203	1380	501	721	417	148	54	36	20	128
26	131	495	197	1520	464	653	386	134	45	61	36	120
27	124	503	197	1600	438	680	355	121	48	184	39	116
28	116	482	192	1590	410	696	333	110	87	184	34	117
29	112	422	185	1440	---	641	315	100	169	243	163	110
30	109	384	182	1330	---	596	291	93	146	235	673	104
31	109	---	181	1280	---	597	---	95	---	169	889	---
TOTAL	5875	5222	7501	25759	23244	27106	29637	6035	2189	2604	2814	9179
MEAN	189.5	174.1	242.0	830.9	830.1	874.4	987.9	194.7	72.97	84.00	90.77	306.0
MAX	259	503	362	1600	1280	1600	2140	304	169	243	889	981
MIN	109	95	181	173	410	388	291	93	42	32	16	104
CFSM	0.28	0.26	0.36	1.23	1.23	1.29	1.46	0.29	0.11	0.12	0.13	0.45
IN.	0.32	0.29	0.41	1.42	1.28	1.49	1.63	0.33	0.12	0.14	0.15	0.51

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2002, BY WATER YEAR (WY)

	536.1	494.5	703.4	1145	1324	1422	1055	524.8	469.4	472.1	680.3	720.0
MEAN	536.1	494.5	703.4	1145	1324	1422	1055	524.8	469.4	472.1	680.3	720.0
MAX	4421	1412	2164	2903	4212	3410	3070	1687	3089	2088	2810	5812
(WY)	2000	1963	1993	1993	1998	1983	1973	1978	1995	1965	1974	1999
MIN	29.6	57.1	238	287	448	460	225	117	73.0	68.0	25.2	13.4
(WY)	1955	1974	1989	1986	1989	1981	1981	2001	2002	1998	1954	1954

SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1952 - 2002	
ANNUAL TOTAL	150986		147165			
ANNUAL MEAN	413.7		403.2		792.8	
HIGHEST ANNUAL MEAN					1300	
LOWEST ANNUAL MEAN					327	
HIGHEST DAILY MEAN	1910	Mar 25	2140	Apr 6	27300	Sep 18 1999
LOWEST DAILY MEAN	62	May 12	16	Aug 24	8.9	Sep 13 1954
ANNUAL SEVEN-DAY MINIMUM	75	May 10	18	Aug 18	9.9	Oct 9 1954
MAXIMUM PEAK FLOW			2180		28500	
MAXIMUM PEAK STAGE			11.50		27.14*	
INSTANTANEOUS LOW FLOW			16*		8.5	
ANNUAL RUNOFF (CFSM)	0.61		0.60		1.17	
ANNUAL RUNOFF (INCHES)	8.31		8.10		15.93	
10 PERCENT EXCEEDS	878		1030		1770	
50 PERCENT EXCEEDS	302		224		513	
90 PERCENT EXCEEDS	105		46		104	

* See REMARKS.

02106500 BLACK RIVER NEAR TOMAHAWK, NC--Continued

