

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 sea level. 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.--Records fair except those for estimated daily discharges, which are poor. Maximum gage height for period of record, from floodmarks.

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 2000 TO SEPTEMBER 2001
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1040	142	696	429	286	561	1570	162	308	261	522	692
2	995	e143	633	401	273	512	1550	150	583	218	490	788
3	948	139	597	383	270	471	1380	139	838	184	422	663
4	872	140	609	364	277	583	1140	128	746	296	384	570
5	782	146	614	352	365	888	1010	117	632	272	322	534
6	700	154	586	348	472	897	944	109	536	231	267	502
7	626	154	543	349	449	774	879	100	465	205	230	474
8	554	154	504	347	410	662	786	89	419	176	201	449
9	496	151	475	346	377	586	686	81	375	166	172	431
10	452	153	467	345	350	540	610	72	340	165	146	559
11	406	155	522	330	331	499	533	66	305	156	122	604
12	363	150	598	321	325	463	477	62	261	164	111	575
13	314	146	669	329	417	438	435	77	222	217	106	475
14	277	156	616	340	493	421	399	97	292	241	321	419
15	253	213	615	342	477	425	369	77	1090	226	594	384
16	238	254	575	362	453	657	337	75	1480	183	561	352
17	221	255	547	354	463	703	313	106	1660	150	417	320
18	208	267	567	343	722	616	298	127	1490	129	370	294
19	198	285	552	329	791	538	286	128	1290	111	1150	270
20	191	447	529	340	691	491	268	119	1090	99	1480	249
21	182	596	513	395	592	986	256	106	957	88	1620	233
22	174	539	490	413	567	1460	248	95	885	79	1670	238
23	169	486	466	385	781	1690	233	85	826	73	1670	232
24	167	439	441	368	877	1850	220	78	739	76	1610	215
25	158	419	425	347	807	1910	220	73	587	104	1460	289
26	155	645	399	330	716	1740	237	69	562	127	1190	357
27	155	842	385	323	638	1380	237	65	501	131	858	322
28	156	817	429	315	587	1160	211	81	409	202	643	292
29	146	821	504	302	---	1110	193	203	357	259	544	277
30	142	783	488	290	---	1310	175	352	310	327	505	261
31	140	---	468	293	---	1500	---	329	---	509	520	---
TOTAL	11878	10191	16522	10815	14257	27821	16500	3617	20555	5825	20678	12320
MEAN	383	340	533	349	509	897	550	117	685	188	667	411
MAX	1040	842	696	429	877	1910	1570	352	1660	509	1670	788
MIN	140	139	385	290	270	421	175	62	222	73	106	215
CFSM	.57	.50	.79	.52	.75	1.33	.81	.17	1.01	.28	.99	.61
IN.	.65	.56	.91	.60	.78	1.53	.91	.20	1.13	.32	1.14	.68

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2001, BY WATER YEAR (WY)

	543	501	713	1151	1334	1433	1056	531	477	480	692	728
MEAN	543	501	713	1151	1334	1433	1056	531	477	480	692	728
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	113	68.0	25.2	13.4
(WY)	1955	1974	1989	1986	1989	1981	1981	2001	1985	1998	1954	1954

SUMMARY STATISTICS	FOR 2000 CALENDAR YEAR	FOR 2001 WATER YEAR	WATER YEARS 1952 - 2001
ANNUAL TOTAL	274573	170979	
ANNUAL MEAN	750	468	801
HIGHEST ANNUAL MEAN			1300
LOWEST ANNUAL MEAN			327
HIGHEST DAILY MEAN	2950	Feb 3	27300
LOWEST DAILY MEAN	126	May 21	8.9
ANNUAL SEVEN-DAY MINIMUM	142	Oct 29	9.9
MAXIMUM PEAK FLOW			28500
MAXIMUM PEAK STAGE		10.88	27.14*
INSTANTANEOUS LOW FLOW		60	8.5
ANNUAL RUNOFF (CFSM)	1.11	.69	1.18
ANNUAL RUNOFF (INCHES)	15.11	9.41	16.09
10 PERCENT EXCEEDS	1600	892	1780
50 PERCENT EXCEEDS	582	370	520
90 PERCENT EXCEEDS	170	129	107

e Estimated.
* See REMARKS.

02106500 BLACK RIVER NEAR TOMAHAWK, NC--Continued

