

02106500 BLACK RIVER NEAR TOMAHAWK, NC

LOCATION.--Lat 34°45'18", long 78°17'19", 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.

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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	468	209	1,040	520	613	919	661	243	185	491	1,060	319
2	480	201	868	496	563	983	716	231	194	376	659	282
3	466	195	710	477	521	891	885	220	228	342	513	231
4	441	195	610	461	555	728	927	205	276	367	442	196
5	406	211	560	452	610	621	840	194	338	333	404	167
6	375	239	531	446	595	577	722	450	344	289	361	143
7	349	224	510	437	547	539	627	1,120	297	226	328	120
8	326	210	492	427	510	514	604	1,300	281	200	298	103
9	308	202	475	418	484	519	627	1,300	322	204	280	91
10	295	195	499	400	478	524	614	1,240	429	162	274	80
11	280	184	586	384	484	509	564	982	450	140	464	71
12	264	209	564	373	456	485	508	625	349	126	556	64
13	254	556	504	365	431	463	493	542	301	125	549	62
14	267	856	461	404	413	437	822	512	272	189	500	101
15	291	797	421	697	405	414	1,240	444	247	216	466	289
16	299	611	395	879	395	405	1,340	458	219	290	457	292
17	289	515	378	884	383	529	1,280	442	185	359	400	234
18	266	459	371	785	371	778	1,050	371	160	417	371	225
19	264	419	363	683	354	878	808	317	139	646	316	214
20	287	394	356	636	345	886	661	283	121	542	275	206
21	264	380	346	630	340	879	576	291	107	391	253	192
22	251	368	339	619	360	834	509	285	97	334	264	175
23	241	378	345	596	372	875	450	262	86	615	285	161
24	231	511	369	552	425	1,150	400	257	76	954	340	148
25	223	593	375	503	705	1,270	363	244	71	635	395	136
26	222	544	391	475	802	1,270	334	231	73	450	372	126
27	216	483	591	452	712	1,130	314	216	140	410	358	121
28	212	669	683	423	701	928	295	204	170	349	345	118
29	209	1,020	644	403	---	805	273	199	411	308	331	111
30	209	1,100	597	448	---	742	257	191	614	1,080	328	160
31	210	---	555	619	---	685	---	188	---	1,460	327	---
TOTAL	9,163	13,127	15,929	16,344	13,930	23,167	19,760	14,047	7,182	13,026	12,571	4,938
MEAN	296	438	514	527	498	747	659	453	239	420	406	165
MAX	480	1,100	1,040	884	802	1,270	1,340	1,300	614	1,460	1,060	319
MIN	209	184	339	365	340	405	257	188	71	125	253	62
CFSM	0.44	0.65	0.76	0.78	0.74	1.11	0.97	0.67	0.35	0.62	0.60	0.24
IN.	0.50	0.72	0.88	0.90	0.77	1.27	1.09	0.77	0.40	0.72	0.69	0.27

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2005, BY WATER YEAR (WY)

MEAN	521	499	707	1,112	1,295	1,405	1,055	540	483	531	708	707
MAX	4,421	1,412	2,164	2,903	4,212	3,410	3,070	1,687	3,089	3,949	2,810	5,812
(WY)	(2000)	(1963)	(1993)	(1993)	(1998)	(1983)	(1973)	(1978)	(1995)	(2003)	(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)

CAPE FEAR RIVER BASIN

02106500 BLACK RIVER NEAR TOMAHAWK, NC—Continued

SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1952 - 2005	
ANNUAL TOTAL	241,731		163,184			
ANNUAL MEAN	660		447		795	
HIGHEST ANNUAL MEAN					1,300	1960
LOWEST ANNUAL MEAN					327	1986
HIGHEST DAILY MEAN	2,490	Apr 16	1,460	Jul 31	27,300	Sep 18, 1999
LOWEST DAILY MEAN	82	Jul 30	62	Sep 13	8.9	Sep 13, 1954
ANNUAL SEVEN-DAY MINIMUM	96	Jul 24	82	Sep 8	9.9	Oct 9, 1954
MAXIMUM PEAK FLOW			1,510	Jul 31	28,500	Sep 18, 1999
MAXIMUM PEAK STAGE			9.43	Jul 31	27.14*	Sep 18, 1999
INSTANTANEOUS LOW FLOW			59	Sep 14	8.5	Oct 13, 1954
ANNUAL RUNOFF (CFSM)	0.977		0.661		1.18	
ANNUAL RUNOFF (INCHES)	13.30		8.98		15.97	
10 PERCENT EXCEEDS	1,370		827		1,770	
50 PERCENT EXCEEDS	519		395		514	
90 PERCENT EXCEEDS	210		185		108	

* See REMARKS.

