

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.--Records good, 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 2003 TO SEPTEMBER 2004
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	413	1,440	523	818	670	1,980	466	528	582	458	133	1,070
2	381	1,390	498	768	620	2,030	460	e611	535	640	144	1,280
3	347	1,220	468	731	607	2,000	432	e1,030	487	558	188	1,260
4	319	1,060	457	703	687	1,870	414	e1,510	433	485	256	1,090
5	297	972	619	686	700	1,730	393	1,770	506	441	245	909
6	277	953	793	668	667	1,620	368	2,080	512	357	234	806
7	259	1,000	775	653	650	1,520	348	2,370	399	302	254	839
8	254	1,040	710	632	636	1,380	335	2,400	334	260	248	892
9	340	929	652	628	602	1,240	323	2,100	308	225	239	973
10	450	781	624	674	576	1,080	313	1,590	314	194	228	1,090
11	429	666	1,000	688	564	928	392	1,120	295	172	214	1,170
12	419	604	1,300	660	595	808	1,180	815	340	179	199	1,160
13	396	573	1,390	659	869	731	1,730	768	425	178	235	1,080
14	364	534	1,500	649	1,030	671	2,180	979	385	207	431	996
15	369	492	1,750	628	1,170	634	2,410	996	343	219	1,030	904
16	389	463	1,930	604	1,330	629	2,490	762	337	200	1,360	806
17	373	445	2,080	e570	1,430	656	2,350	530	353	173	1,580	727
18	354	431	2,170	557	1,510	649	2,000	440	383	153	1,810	759
19	344	450	2,160	576	1,530	619	1,480	392	378	144	2,000	908
20	328	851	2,040	567	1,490	589	983	359	389	e131	2,050	910
21	312	1,090	1,860	541	1,380	557	736	394	351	e132	1,930	834
22	298	1,030	1,690	523	1,250	531	612	382	308	e125	1,670	744
23	282	935	1,550	511	1,130	502	524	333	e280	e119	1,430	663
24	267	830	1,470	496	1,050	475	458	400	e290	e109	1,350	600
25	252	750	1,460	487	971	456	409	704	338	e107	1,340	558
26	242	696	1,400	499	925	439	391	593	300	e104	1,310	524
27	243	652	1,280	560	1,230	422	825	419	270	e97	1,230	503
28	252	621	1,150	658	1,620	409	1,030	346	266	e91	1,130	507
29	e735	594	1,020	740	1,860	399	834	297	319	85	1,010	542
30	e1,140	554	933	755	---	386	615	274	356	82	975	502
31	1,410	---	872	725	---	399	---	425	---	112	998	---
TOTAL	12,535	24,046	38,124	19,614	29,349	28,339	27,481	27,717	11,116	6,839	27,451	25,606
MEAN	404	802	1,230	633	1,012	914	916	894	371	221	886	854
MAX	1,410	1,440	2,170	818	1,860	2,030	2,490	2,400	582	640	2,050	1,280
MIN	242	431	457	487	564	386	313	274	266	82	133	502
CFSM	0.60	1.19	1.82	0.94	1.50	1.35	1.36	1.32	0.55	0.33	1.31	1.26
IN.	0.69	1.32	2.10	1.08	1.62	1.56	1.51	1.53	0.61	0.38	1.51	1.41

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1952 - 2004, BY WATER YEAR (WY)

	525	500	711	1,123	1,310	1,418	1,062	542	488	533	714	717
MEAN	525	500	711	1,123	1,310	1,418	1,062	542	488	533	714	717
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1952 - 2004	
ANNUAL TOTAL	500,560		278,217			
ANNUAL MEAN	1,371		760		801	
HIGHEST ANNUAL MEAN					1,300	1960
LOWEST ANNUAL MEAN					327	1986
HIGHEST DAILY MEAN	7,990	Jul 17	2,490	Apr 16	27,300	Sep 18, 1999
LOWEST DAILY MEAN	242	Oct 26	82	Jul 30	8.9	Sep 13, 1954
ANNUAL SEVEN-DAY MINIMUM	262	Oct 22	96	Jul 24	9.9	Oct 9, 1954
MAXIMUM PEAK FLOW			2,510	Apr 16	28,500	Sep 18, 1999
MAXIMUM PEAK STAGE			12.49	Apr 16	27.14*	Sep 18, 1999
INSTANTANEOUS LOW FLOW			79	Jul 30	8.5	Oct 13, 1954
ANNUAL RUNOFF (CFSM)	2.03		1.12		1.18	
ANNUAL RUNOFF (INCHES)	27.55		15.31		16.10	
10 PERCENT EXCEEDS	2,920		1,520		1,780	
50 PERCENT EXCEEDS	935		612		520	
90 PERCENT EXCEEDS	376		251		107	

* See REMARKS.

e Estimated.

