

CAPE FEAR RIVER BASIN

02102500 CAPE FEAR RIVER AT LILLINGTON, NC

LOCATION.--Lat 35°24'22", long 78°48'48", Harnett County, Hydrologic Unit 03030004, on right bank 60 ft downstream of downstream bridge on U.S. Highway 401, 1,860 ft downstream of Southern Railway bridge, 0.5 mi north of Lillington, 1 mile downstream of Neal Creek, and at mile 178.

DRAINAGE AREA.--3,464 mi².

PERIOD OF RECORD.--December 1923 to current year.

REVISED RECORDS.--WSP 1002: 1930 (M). WSP 1032: 1942 (m). WSP 1303: 1944 (M). WSP 1333: 1945. WSP 1383:

GAGE.--Water-stage recorder. Datum of gage is 104.62 ft above sea level. Dec. 6, 1923, to Oct. 7, 1927, nonrecording gage and Oct. 8, 1927, to Dec. 2, 1975, water-stage recorder at site 60 ft upstream in bridge pier at same datum. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Some regulation at high flows, December 1972 to August 1981, caused by temporary storage in B. Everett Jordan Lake. Flow regulated since Sept. 1981 by B. Everett Jordan Lake (station 02098197). Diurnal fluctuation and slight regulation at low flow caused by power plants upstream from station. Fluctuation and regulation by Buckhorn Reservoir, 13 mi upstream from station, ended in December 1962. Prior to regulation, maximum discharge: 150,000 ft³/s, Sept. 19, 1945, from rating curve extended above 76,000 ft³/s; gage height: 33.19 ft, from floodmark; minimum discharge: 11 ft³/s, Oct. 14, 15, 1954; gage height: -0.17 ft.

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	4270	697	837	657	523	2110	10500	825	669	1140	773	1070
2	4150	634	768	698	684	1940	10100	745	8350	990	579	798
3	4150	621	706	705	796	1670	15400	699	4560	698	559	614
4	3160	626	698	650	726	1770	15100	649	5110	720	682	581
5	707	636	692	628	755	4190	16000	619	5340	6250	639	631
6	661	623	596	604	834	4170	15500	662	4940	4120	590	602
7	620	623	603	601	743	4670	14300	574	3660	3120	597	572
8	556	625	590	624	675	3940	11400	542	758	2230	631	547
9	708	636	580	662	715	3560	6980	614	682	1860	582	537
10	755	642	582	645	687	3340	5640	554	620	2040	559	1100
11	718	617	577	601	708	3140	4320	587	630	1630	1410	717
12	620	615	578	650	669	2640	3590	602	598	1340	3170	688
13	634	623	617	617	854	1070	1800	672	676	893	2200	681
14	638	688	629	640	837	1060	1710	594	2520	867	2250	597
15	628	687	647	582	1000	949	1580	570	4190	771	4060	602
16	629	650	667	631	1130	1200	1500	726	2030	688	3400	541
17	609	656	874	635	1390	1410	1230	687	1660	663	2060	484
18	606	644	1180	621	3810	1800	1100	622	1620	672	1180	744
19	630	727	1690	563	4300	1670	901	601	1220	637	1230	656
20	609	833	1150	761	2060	2170	913	674	2390	579	1100	642
21	643	765	875	653	1940	6560	876	665	2400	576	1470	652
22	638	749	765	1110	5040	6810	820	694	1750	584	1190	639
23	618	734	523	1330	4720	7500	672	756	1650	572	975	643
24	624	722	554	1020	3420	6930	763	653	2620	640	780	808
25	592	824	720	807	3350	7840	934	613	2100	688	670	799
26	617	1080	751	632	3300	8370	868	635	1600	718	698	761
27	607	663	778	814	2190	8010	927	615	2360	895	631	723
28	602	822	746	749	2140	7040	1090	637	2250	994	732	793
29	610	1050	722	650	---	3730	1050	821	1930	726	597	705
30	597	886	743	781	---	14600	816	950	1200	763	547	605
31	635	---	688	584	---	14300	---	901	---	703	1050	---
TOTAL	32841	21398	23126	21905	49996	140159	148380	20758	72083	39767	37591	20532
MEAN	1059	713	746	707	1786	4521	4946	670	2403	1283	1213	684
MAX	4270	1080	1690	1330	5040	14600	16000	950	8350	6250	4060	1100
MIN	556	615	523	563	523	949	672	542	598	572	547	484

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2001,* BY WATER YEAR (WY)

	1984	1984	1984	1984	1984	1984	1984	1984	1984	1984	1984	1984
MEAN	1984	1934	2618	5344	6421	7419	4944	2588	2238	1734	1590	1932
MAX	6442	7919	8595	11750	16440	15710	11670	7784	12510	5694	5448	13920
(WY)	1990	1986	1984	1998	1998	1993	1993	1989	1982	1995	1985	1996
MIN	621	522	723	707	1786	1628	969	670	551	604	634	596
(WY)	1999	1999	1995	2001	2001	1988	1985	2001	1999	1999	1983	1990

SUMMARY STATISTICS

	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1982 - 2001*	
ANNUAL TOTAL	831496		628536			
ANNUAL MEAN	2272		1722		3380	
HIGHEST ANNUAL MEAN					6167	
LOWEST ANNUAL MEAN					1488	
HIGHEST DAILY MEAN	13800		16000		41400	
LOWEST DAILY MEAN	415		484		210	
ANNUAL SEVEN-DAY MINIMUM	476		583		223	
MAXIMUM PEAK FLOW			19500		51800	
MAXIMUM PEAK STAGE			11.41		18.97	
INSTANTANEOUS LOW FLOW			385		190	
10 PERCENT EXCEEDS	5200		4150		9830	
50 PERCENT EXCEEDS	1050		743		1240	
90 PERCENT EXCEEDS	597		597		605	

* See REMARKS.

02102500 CAPE FEAR RIVER AT LILLINGTON, NC--Continued

