

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 NGVD of 1929. 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. Minimum discharge for period of record and current water year also occurred on Aug. 7, 2002.

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	654	617	576	550	2410	727	6280	587	574	675	650	1230
2	686	618	593	532	1260	768	5980	535	589	430	287	6520
3	623	618	573	600	1090	1080	3150	642	581	439	227	3540
4	607	616	556	571	1050	1110	3510	687	591	376	221	1220
5	643	608	544	606	973	2190	3940	763	585	327	189	753
6	691	612	517	706	961	3090	2120	681	564	431	155	520
7	711	613	593	981	1110	4000	1780	654	605	340	226	324
8	674	618	553	728	2230	3100	1780	696	565	303	281	287
9	653	620	541	937	3980	951	1590	692	579	293	291	295
10	653	617	504	1000	2900	920	1040	734	534	291	275	270
11	642	604	777	823	3090	907	1030	664	548	300	264	257
12	632	599	740	660	3920	1020	1040	678	551	297	255	247
13	633	609	772	731	4440	981	1020	606	610	317	257	237
14	643	629	961	681	2790	1040	866	711	601	356	264	274
15	896	605	836	679	2040	1430	855	642	611	359	282	936
16	696	599	705	606	1060	1600	950	629	596	318	284	816
17	509	559	582	570	974	1250	801	619	583	330	294	625
18	602	612	678	622	921	1080	863	693	545	287	278	404
19	639	615	634	589	889	1330	745	614	534	274	254	355
20	588	543	569	4560	875	2330	763	619	517	239	250	490
21	688	521	532	6860	849	2450	703	575	506	300	239	674
22	680	519	535	4100	798	2520	659	589	505	283	232	645
23	589	538	566	4270	815	1940	674	643	509	277	243	442
24	653	610	604	12700	818	1870	650	637	506	358	242	273
25	605	586	607	11600	802	1570	638	616	505	504	245	253
26	603	567	552	6710	776	1410	631	624	484	531	260	257
27	583	559	561	4200	757	1740	620	629	585	408	288	244
28	611	573	555	4320	707	2440	576	630	644	327	351	256
29	617	569	560	5250	---	2460	585	601	1290	415	304	266
30	623	582	554	4940	---	2520	563	607	525	472	312	254
31	622	---	547	4270	---	2390	---	612	---	300	288	---
TOTAL	19949	17755	18977	86952	45285	54214	46402	19909	17522	11157	8488	23164
MEAN	643.5	591.8	612.2	2805	1617	1749	1547	642.2	584.1	359.9	273.8	772.1
MAX	896	629	961	12700	4440	4000	6280	763	1290	675	650	6520
MIN	509	519	504	532	707	727	563	535	484	239	155	237
CFSM	0.19	0.17	0.18	0.81	0.47	0.50	0.45	0.19	0.17	0.10	0.08	0.22
IN.	0.21	0.19	0.20	0.93	0.49	0.58	0.50	0.21	0.19	0.12	0.09	0.25

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2002,* BY WATER YEAR (WY)

	1920	1870	2523	5223	6194	7149	4783	2495	2159	1669	1527	1876
MEAN	1920	1870	2523	5223	6194	7149	4783	2495	2159	1669	1527	1876
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	612	707	1617	1628	969	642	551	360	274	596
(WY)	1999	1999	2002	2001	2002	1988	1985	2002	1999	2002	2002	1990

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SUMMARY STATISTICS	FOR 2001 CALENDAR YEAR		FOR 2002 WATER YEAR		WATER YEARS 1982 - 2002*	
ANNUAL TOTAL	607852		369774		3267	
ANNUAL MEAN	1665		1013		6167	
HIGHEST ANNUAL MEAN					1013	
LOWEST ANNUAL MEAN					1984	
HIGHEST DAILY MEAN	16000	Apr 5	12700	Jan 24	41400	Sep 6 1996
LOWEST DAILY MEAN	484	Sep 17	155	Aug 6	155	Aug 6 2002
ANNUAL SEVEN-DAY MINIMUM	544	Dec 4	227	Aug 2	223	Oct 2 1981
MAXIMUM PEAK FLOW			13800		51800	
MAXIMUM PEAK STAGE			9.39		18.97	
INSTANTANEOUS LOW FLOW			141*		141*	
ANNUAL RUNOFF (CFSM)	0.48		0.29		0.94	
ANNUAL RUNOFF (INCHES)	6.53		3.97		12.81	
10 PERCENT EXCEEDS	3990		2270		9480	
50 PERCENT EXCEEDS	698		616		1170	
90 PERCENT EXCEEDS	570		283		593	

* See REMARKS.

