

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 also occurred on Aug. 7, 2002.

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	8,130	703	4,670	1,340	3,200	10,200	8,560	1,210	802	802	4,020	581
2	8,350	693	4,330	1,310	3,070	8,400	4,200	1,260	901	745	2,480	639
3	8,170	706	4,200	1,290	2,850	9,210	5,290	1,330	1,340	884	1,590	651
4	6,770	717	4,110	1,260	4,000	8,080	9,840	1,320	2,040	700	1,270	641
5	3,930	740	4,050	1,250	4,240	5,760	10,200	1,250	1,470	661	1,010	646
6	2,800	726	3,940	1,230	3,120	5,400	6,290	1,000	1,200	690	799	649
7	1,530	773	3,770	1,220	2,930	5,150	3,760	692	1,090	817	740	587
8	1,350	918	2,160	1,220	4,240	3,270	3,230	1,250	1,220	1,250	689	578
9	999	774	1,830	1,200	4,090	6,610	8,120	1,390	1,480	1,230	734	545
10	882	704	2,140	1,170	3,970	6,020	8,650	1,400	1,590	1,120	1,010	543
11	860	663	5,930	1,210	3,810	5,530	5,760	946	3,820	862	1,760	611
12	849	686	6,990	1,140	2,140	4,160	8,010	828	2,590	772	2,350	638
13	864	904	4,060	1,130	1,980	3,860	5,470	877	2,100	674	2,000	562
14	2,760	1,390	4,390	6,480	1,960	3,540	8,980	834	2,190	713	1,740	551
15	2,280	2,370	4,590	17,600	1,930	3,080	9,180	803	1,950	684	1,270	548
16	1,450	6,440	4,350	14,000	1,950	3,070	5,760	848	1,730	661	849	555
17	1,140	4,100	4,270	5,290	1,610	11,800	2,920	757	905	621	789	608
18	999	3,820	5,610	4,740	1,510	14,300	1,970	781	833	926	991	607
19	886	3,570	5,590	11,500	1,360	10,200	1,750	690	843	783	920	593
20	816	1,420	5,440	12,300	1,300	6,900	1,660	687	715	672	861	592
21	932	1,180	5,040	11,400	1,290	6,880	1,580	744	543	622	898	743
22	1,590	1,130	4,890	3,020	1,280	8,960	1,500	727	646	589	809	486
23	927	1,200	3,840	2,520	1,460	8,150	1,440	836	661	1,900	778	500
24	777	1,640	1,460	2,400	2,360	4,440	1,350	1,490	630	1,150	789	500
25	783	2,020	1,590	1,630	4,360	5,220	1,290	1,460	610	674	706	494
26	755	2,120	1,860	1,510	4,130	4,810	1,230	1,380	610	675	707	487
27	758	2,080	1,590	1,660	3,110	4,310	1,230	1,030	599	642	662	490
28	762	2,420	1,420	2,270	4,330	5,140	1,180	685	642	631	656	482
29	723	3,510	1,360	2,250	---	12,700	1,160	641	659	1,980	652	487
30	715	3,990	1,370	2,470	---	10,200	1,130	659	710	1,740	634	431
31	728	---	1,350	2,920	---	10,400	---	620	---	2,430	591	---
TOTAL	65,265	54,107	112,190	121,930	77,580	215,750	132,690	30,425	37,119	29,300	35,754	17,025
MEAN	2,105	1,804	3,619	3,933	2,771	6,960	4,423	981	1,237	945	1,153	568
MAX	8,350	6,440	6,990	17,600	4,360	14,300	10,200	1,490	3,820	2,430	4,020	743
MIN	715	663	1,350	1,130	1,280	3,070	1,130	620	543	589	591	431

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2005,* BY WATER YEAR (WY)

MEAN	2,014	2,020	2,827	4,910	6,024	7,268	5,064	2,535	2,255	1,725	1,791	2,094
MAX	6,442	7,919	8,595	11,750	16,440	15,710	14,780	7,784	12,510	5,694	7,075	13,920
(WY)	(1990)	(1986)	(1984)	(1998)	(1998)	(1993)	(2003)	(1989)	(1982)	(1995)	(2003)	(1996)
MIN	621	522	612	707	1,617	1,628	969	642	551	360	274	568
(WY)	(1999)	(1999)	(2002)	(2001)	(2002)	(1988)	(1985)	(2002)	(1999)	(2002)	(2002)	(2005)

CAPE FEAR RIVER BASIN

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1982 - 2005*	
ANNUAL TOTAL	933,085		929,135		3,363	
ANNUAL MEAN	2,549		2,546		7,146	
HIGHEST ANNUAL MEAN					1,013	2003
LOWEST ANNUAL MEAN					41,400	2002
HIGHEST DAILY MEAN	16,200	Sep 9	17,600	Jan 15	155	Sep 6, 1996
LOWEST DAILY MEAN	526	Aug 10	431	Sep 30	223	Aug 6, 2002
ANNUAL SEVEN-DAY MINIMUM	677	Jul 14	482	Sep 24	51,800	Oct 2, 1981
MAXIMUM PEAK FLOW			20,500	Jan 15	18.97	Sep 7, 1996
MAXIMUM PEAK STAGE			11.35	Jan 15	141*	Sep 7, 1996
INSTANTANEOUS LOW FLOW			412	Sep 30	0.971	Aug 6, 2002
ANNUAL RUNOFF (CFSM)	0.736		0.735		13.19	
ANNUAL RUNOFF (INCHES)	10.02		9.98		9,690	
10 PERCENT EXCEEDS	5,680		6,130		1,280	
50 PERCENT EXCEEDS	1,510		1,340		600	
90 PERCENT EXCEEDS	737		639			

* Regulated period only (1981-2005). See REMARKS.

