

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 mi<sup>2</sup>.

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 ft<sup>3</sup>/s, Sept. 19, 1945, from rating curve extended above 76,000 ft<sup>3</sup>/s; gage height: 33.19 ft, from floodmark; minimum discharge: 11 ft<sup>3</sup>/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 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,210	1,840	1,360	1,320	1,950	5,280	1,190	891	1,270	1,670	4,560	7,800
2	1,070	1,460	1,430	1,350	1,830	5,280	1,430	2,220	936	1,590	1,970	7,160
3	996	1,320	1,330	1,310	1,970	5,630	2,060	7,940	688	1,510	1,780	6,850
4	910	1,280	1,280	1,310	5,480	6,100	1,920	6,960	751	1,440	1,820	4,570
5	900	1,190	1,400	1,290	7,740	4,820	1,680	3,910	1,700	1,240	1,730	1,850
6	814	1,180	1,450	1,390	6,120	2,490	2,000	5,220	1,080	1,110	1,930	927
7	846	1,230	1,440	1,380	4,450	2,280	2,320	4,640	900	1,430	1,670	1,000
8	705	1,230	1,560	1,570	7,710	2,180	2,250	3,420	905	1,280	1,420	6,510
9	902	1,300	1,290	1,460	7,520	2,600	1,840	2,830	829	752	853	16,200
10	800	1,310	1,290	1,390	7,170	2,480	1,380	1,440	915	644	526	15,100
11	790	1,310	5,330	1,330	6,490	2,310	1,410	1,380	722	764	587	14,000
12	820	1,240	5,750	1,330	4,070	2,230	1,500	1,210	1,030	806	617	13,600
13	931	1,040	5,650	1,350	5,130	1,790	1,820	1,300	841	1,240	876	10,300
14	929	934	6,030	1,330	5,760	1,700	2,480	1,160	667	792	1,490	3,420
15	1,000	999	8,570	1,360	4,660	1,690	4,540	1,170	581	646	3,570	3,170
16	1,010	978	8,140	1,400	5,070	2,730	6,160	880	694	612	4,410	1,860
17	1,050	905	7,840	1,470	5,360	4,510	2,360	731	1,170	588	3,490	1,920
18	887	843	8,000	1,460	5,670	5,830	1,790	814	1,530	592	3,690	2,650
19	733	958	8,810	1,480	7,760	5,690	1,680	635	1,500	585	5,360	3,430
20	836	1,340	6,370	1,710	3,770	6,830	2,310	750	1,510	927	5,510	4,060
21	2,000	1,580	5,750	1,640	3,360	6,410	2,280	645	1,430	1,170	2,260	6,090
22	2,230	1,940	4,470	1,580	3,100	4,920	1,930	685	1,080	836	4,410	3,540
23	2,140	1,660	1,690	1,470	2,960	2,110	1,400	1,020	947	818	3,630	2,730
24	1,000	1,440	1,730	1,230	2,850	1,690	959	1,550	648	1,010	2,350	1,130
25	841	1,440	1,700	1,220	2,790	1,580	855	1,260	666	942	1,150	969
26	1,120	1,340	1,600	1,310	2,660	1,490	895	1,000	873	905	942	926
27	1,110	1,240	1,570	1,300	2,730	1,180	1,010	718	1,070	838	881	860
28	1,080	1,290	1,500	1,320	3,270	1,110	959	615	933	593	816	958
29	1,810	1,260	1,390	1,390	4,400	1,140	883	678	1,420	664	791	7,420
30	2,320	1,220	1,380	1,470	---	1,170	1,270	992	1,720	859	5,220	10,200
31	2,490	---	1,400	1,680	---	1,140	---	1,690	---	4,450	13,000	---
TOTAL	36,280	38,297	108,500	43,600	133,800	98,390	56,561	60,354	31,006	33,303	83,309	161,200
MEAN	1,170	1,277	3,500	1,406	4,614	3,174	1,885	1,947	1,034	1,074	2,687	5,373
MAX	2,490	1,940	8,810	1,710	7,760	6,830	6,160	7,940	1,720	4,450	13,000	16,200
MIN	705	843	1,280	1,220	1,830	1,110	855	615	581	585	526	860
CFSM	0.34	0.37	1.01	0.41	1.33	0.92	0.54	0.56	0.30	0.31	0.78	1.55
IN.	0.39	0.41	1.17	0.47	1.44	1.06	0.61	0.65	0.33	0.36	0.89	1.73

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2004,\* BY WATER YEAR (WY)

MEAN	2,010	2,030	2,793	4,952	6,164	7,282	5,091	2,603	2,300	1,759	1,819	2,160
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	596
(WY)	(1999)	(1999)	(2002)	(2001)	(2002)	(1988)	(1985)	(2002)	(1999)	(2002)	(2002)	(1990)

CAPE FEAR RIVER BASIN

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1982 - 2004*	
ANNUAL TOTAL	2,220,497		884,600		3,398	
ANNUAL MEAN	6,084		2,417		7,146	
HIGHEST ANNUAL MEAN					1,013	2003
LOWEST ANNUAL MEAN					1,013	2002
HIGHEST DAILY MEAN	38,300	Apr 11	16,200	Sep 9	41,400	Sep 6, 1996
LOWEST DAILY MEAN	705	Oct 8	526	Aug 10	155	Aug 6, 2002
ANNUAL SEVEN-DAY MINIMUM	811	Oct 6	677	Jul 14	223	Oct 2, 1981
MAXIMUM PEAK FLOW			18,900	Sep 9	51,800	Sep 7, 1996
MAXIMUM PEAK STAGE			10.83	Sep 9	18.97	Sep 7, 1996
INSTANTANEOUS LOW FLOW			509	Aug 10	141*	Aug 6, 2002
ANNUAL RUNOFF (CFSM)	1.76		0.698		0.981	
ANNUAL RUNOFF (INCHES)	23.85		9.50		13.33	
10 PERCENT EXCEEDS	15,000		5,750		9,900	
50 PERCENT EXCEEDS	3,760		1,430		1,270	
90 PERCENT EXCEEDS	1,090		812		598	

\* Regulated period only (1981-2004). See REMARKS.

