

## 02102500 CAPE FEAR RIVER AT LILLINGTON, NC

LOCATION.--Lat 35°24'23", long 78°48'47", 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. Minimum discharge for current water year also occurred on Oct. 7, 8, 9.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	243	7,160	1,000	6,910	3,830	14,200	11,000	1,950	11,400	1,750	3,770	2,670
2	295	6,350	879	8,780	3,560	17,200	11,900	1,630	8,600	2,870	6,310	4,280
3	287	5,880	948	9,810	2,940	18,900	11,000	1,570	4,410	12,400	7,300	7,360
4	267	5,060	990	7,290	3,760	17,600	10,200	1,500	3,670	10,600	5,210	5,960
5	250	2,220	1,680	6,560	3,610	14,800	6,070	1,540	2,850	9,520	6,800	3,660
6	241	2,660	8,280	5,790	3,680	14,100	5,730	2,470	5,290	9,690	16,000	5,270
7	238	4,140	8,350	4,680	5,580	16,600	5,750	4,040	8,280	7,400	14,300	3,970
8	239	4,100	5,440	3,000	7,540	14,300	7,900	6,100	5,120	2,970	13,100	3,310
9	243	4,490	8,220	2,690	5,310	13,000	16,300	4,350	9,910	2,920	18,000	6,250
10	259	3,960	10,800	2,130	4,230	14,400	25,400	1,710	9,250	3,020	15,400	5,180
11	2,740	3,700	10,100	1,810	6,800	13,600	38,300	1,480	9,040	2,660	15,900	1,490
12	16,800	3,820	9,620	1,720	8,520	13,000	28,100	1,340	9,700	1,800	10,300	1,290
13	14,100	7,470	9,510	1,660	7,750	9,800	26,400	1,200	9,520	1,720	7,080	1,170
14	11,800	10,700	13,000	1,600	6,940	7,340	19,100	1,130	9,240	1,960	11,100	1,090
15	4,120	11,600	11,500	1,560	3,040	3,570	9,310	1,070	9,120	2,120	10,800	1,080
16	8,570	5,170	7,300	1,540	2,860	6,520	16,300	1,010	8,850	6,270	10,500	1,080
17	11,500	6,510	11,600	1,510	3,050	10,000	17,100	1,010	7,580	9,190	8,970	1,050
18	13,500	13,600	13,100	1,390	3,350	10,500	16,600	1,300	7,920	6,530	4,170	1,160
19	11,500	12,200	11,700	1,390	5,340	13,200	16,400	2,080	8,910	3,600	4,670	2,120
20	10,800	13,600	5,120	1,360	7,000	15,500	16,300	4,600	13,000	4,160	6,070	7,510
21	11,000	12,200	6,430	1,320	7,780	24,100	16,500	4,740	11,500	4,000	4,450	4,570
22	9,550	11,100	6,250	1,340	5,400	19,800	16,200	4,090	8,250	2,880	2,130	5,970
23	2,900	7,970	5,200	1,350	15,600	20,100	15,700	8,600	2,730	1,370	1,950	6,060
24	1,540	7,560	4,530	1,240	14,400	16,300	15,400	11,100	2,010	1,290	1,880	11,000
25	1,280	4,250	8,330	1,290	14,300	17,000	14,500	10,900	1,630	2,400	1,860	13,300
26	1,150	1,780	12,500	1,240	14,100	16,400	13,200	17,300	1,700	2,580	2,620	12,400
27	975	1,290	12,600	1,290	11,000	15,800	13,500	18,200	1,660	2,270	2,060	9,960
28	859	1,120	8,950	1,270	18,500	15,300	12,800	14,000	1,590	2,090	1,740	8,980
29	1,000	1,080	9,220	1,060	---	14,100	8,260	13,500	1,490	2,100	1,690	5,690
30	2,160	1,060	8,920	1,210	---	12,500	2,250	12,900	1,430	3,850	1,540	2,180
31	6,390	---	8,370	1,630	---	10,100	---	12,600	---	6,100	1,660	---
TOTAL	146,796	183,800	240,437	87,420	199,770	439,630	443,470	171,010	195,650	134,080	219,330	147,060
MEAN	4,735	6,127	7,756	2,820	7,135	14,180	14,780	5,516	6,522	4,325	7,075	4,902
MAX	16,800	13,600	13,100	9,810	18,500	24,100	38,300	18,200	13,000	12,400	18,000	13,300
MIN	238	1,060	879	1,060	2,860	3,570	2,250	1,010	1,430	1,290	1,540	1,050

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2003,\* BY WATER YEAR (WY)

MEAN	2,048	2,064	2,761	5,114	6,236	7,468	5,237	2,633	2,357	1,790	1,779	2,014
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)

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SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1982 - 2003*	
ANNUAL TOTAL	884,126		2,608,453		3,443	
ANNUAL MEAN	2,422		7,146		7,146	
HIGHEST ANNUAL MEAN					1,013	
LOWEST ANNUAL MEAN					2002	
HIGHEST DAILY MEAN	16,800	Oct 12	38,300	Apr 11	41,400	Sep 6, 1996
LOWEST DAILY MEAN	155	Aug 6	238	Oct 7	155	Aug 6, 2002
ANNUAL SEVEN-DAY MINIMUM	227	Aug 2	248	Oct 4	223	Oct 2, 1981
MAXIMUM PEAK FLOW			41,200	Apr 11	51,800	Sep 7, 1996
MAXIMUM PEAK STAGE			17.07	Apr 11	18.97	Sep 7, 1996
INSTANTANEOUS LOW FLOW			237*	Oct 6	141*	Aug 6, 2002
10 PERCENT EXCEEDS	8,300		15,300		10,200	
50 PERCENT EXCEEDS	753		5,970		1,250	
90 PERCENT EXCEEDS	272		1,260		596	

e Estimated.

\* Regulated period only (1981-2003). See REMARKS.

