

CAPE FEAR RIVER BASIN

02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC

LOCATION.--Lat 34°50'05", long 78°49'27", Bladen County, Hydrologic Unit 03030005, on right bank 100 ft upstream from William O. Huske Lock, 1 mi downstream of Cumberland-Bladen County line, 7 mi north of Tar Heel, 9 mi upstream from Phillips Creek, and at river mile 123.

DRAINAGE AREA.--4,852 mi².

PERIOD OF RECORD.--October 1937 to current year. Prior to October 1964, published as "Cape Fear River at Lock 3 near Tarheel".

REVISED RECORDS.--WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder and concrete lock and dam control. Datum of gage is 28.97 ft above sea level. Prior to Jan. 8, 1939, nonrecording gage on upper lock wall 100 ft downstream at same datum. Auxiliary water-stage recorder 1.8 mi downstream of base gage; prior to Jan. 14, 1943, auxiliary nonrecording gage 400 ft downstream on lower end of lock wall; Jan. 14, 1943, to Sept. 30, 1953, auxiliary water-stage recorder at site 600 ft downstream. U.S. Army Corps of Engineers satellite telemetry at station.

REMARKS.--Records good except those for estimated daily discharges, which are poor. Slight regulation at high flow, December 1972 to August 1981, caused by temporary storage in B. Everett Jordan Lake. Flow regulated since September 1981 by B. Everett Jordan Lake (station 02098197). Slight diurnal fluctuation and some regulation for short periods at low flow caused by power plants above station. Prior to regulation, maximum discharge not determined; minimum discharge, 170 ft³/s, Sep. 20, 1950. Minimum discharge during regulation from unknown source.

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	5470	966	2100	1530	1430	3040	17400	1290	1680	1870	1270	2470
2	5520	978	1890	1470	1370	2880	13100	1210	5460	1670	1150	2450
3	5110	931	1820	1470	1550	2770	16300	1120	8820	1370	986	1980
4	5080	1060	1780	1590	1680	2790	19000	1030	6010	1170	927	1580
5	3300	1110	1520	1600	1650	4010	18500	1130	6230	2440	969	1380
6	1620	e1130	1440	1560	1630	5780	18400	1140	5900	6400	921	1350
7	1400	e1070	1390	1520	1640	5910	17700	1070	5280	4400	845	1260
8	1300	1080	1400	1510	1460	5630	15100	805	3180	3290	773	1160
9	1200	1080	1390	1490	1420	4870	10300	817	1420	2640	784	1080
10	1210	1190	1510	1460	1480	4470	7620	864	1200	2340	749	1090
11	1160	1200	1510	1450	1450	4200	6240	816	1140	2390	1070	1520
12	1190	1180	1430	1460	1600	3900	5130	936	1330	2070	4350	1390
13	1120	1140	1420	1530	1810	3040	3750	1070	1190	1680	6140	1290
14	1160	1050	1430	1510	2000	2040	2800	1020	2370	1320	4530	1210
15	1180	1220	1460	1540	1880	1980	2670	814	4900	1180	4670	1040
16	1140	1390	1480	1470	2120	2420	2460	814	5140	1010	4740	982
17	1000	1390	1690	1430	2620	2920	2140	954	5450	863	3540	898
18	953	1440	2180	1450	3480	3250	1910	1010	4910	894	2760	835
19	978	1450	2760	1440	6040	3120	1710	1140	3540	1200	3770	971
20	988	1690	3060	1560	4950	2940	1460	1200	2750	1270	3380	895
21	1000	1860	2320	1970	3200	7140	1590	1190	3260	1200	3150	883
22	1110	1820	1910	2000	4160	11400	1570	1030	2930	1000	2860	942
23	1050	1760	1800	2470	6130	10700	1400	1010	3730	920	2170	1030
24	892	1690	1530	2330	5550	10400	1130	1020	3590	973	1740	1210
25	768	1750	1530	2000	4770	9660	1340	901	4240	1050	1430	1710
26	887	2860	1530	1780	4600	10200	1640	902	3380	1110	1240	1840
27	914	3280	1450	1610	4130	10000	1710	919	3290	1400	1170	1880
28	1010	2800	1590	1720	3160	9340	1900	1010	3630	2370	1360	1670
29	1060	2450	1580	1620	---	7340	1960	1300	3200	2060	1620	1520
30	960	2400	1620	1480	---	8930	1730	1530	2510	1700	1480	1330
31	895	---	1620	1600	---	21900	---	1670	---	1590	1520	---
TOTAL	52625	46415	53140	50620	78960	188970	199660	32732	111660	56840	68064	40846
MEAN	1698	1547	1714	1633	2820	6096	6655	1056	3722	1834	2196	1362
MAX	5520	3280	3060	2470	6130	21900	19000	1670	8820	6400	6140	2470
MIN	768	931	1390	1430	1370	1980	1130	805	1140	863	749	835

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

	1982	1983	1984	1985	1986	1987	1988	1989	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001
MEAN	3083	3022	4004	7616	8829	10050	6758	3688	3277	2852	2554	3060								
MAX	10230	10190	11360	17240	24770	21520	15410	11770	14200	9262	7358	18950								
(WY)	2000	1996	1984	1998	1998	1998	1993	1989	1982	1995	1984	1996								
MIN	979	1146	1547	1633	2799	3078	1508	1056	914	958	943	935								
(WY)	1987	1999	1999	2001	1986	1988	1986	2001	1999	1986	1999	1990								

SUMMARY STATISTICS

	FOR 2000 CALENDAR YEAR		FOR 2001 WATER YEAR		WATER YEARS 1982 - 2001*	
ANNUAL TOTAL	1331541		980532			
ANNUAL MEAN	3638		2686		4880	
HIGHEST ANNUAL MEAN					8328	
LOWEST ANNUAL MEAN					2426	
HIGHEST DAILY MEAN	20700	Feb 1	21900	Mar 31	60000	Sep 8 1996
LOWEST DAILY MEAN	521	May 17	749	Aug 10	154	Aug 13 1999
ANNUAL SEVEN-DAY MINIMUM	702	May 15	853	Aug 4	429	Oct 4 1981
MAXIMUM PEAK FLOW			24300		Mar 31	
MAXIMUM PEAK STAGE			11.20		Apr 6	
INSTANTANEOUS LOW FLOW			709		26.75	
10 PERCENT EXCEEDS	7950		5460		13000	
50 PERCENT EXCEEDS	2060		1580		2360	
90 PERCENT EXCEEDS	1000		972		1000	

e Estimated.

* Regulated period only (1982-2001). See REMARKS.

02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC--Continued

