

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

LOCATION.--Lat 34°50'45", long 78°49'14", 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 mi<sup>2</sup>.

WATER-DISCHARGE RECORDS

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 contro1. Datum of gage is 28.97 ft above NGVD of 1929. 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 fair except those for daily discharges over 8,000 ft<sup>3</sup>/s, estimated daily discharges and periods of fish lockage, March through May, 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 ft<sup>3</sup>/s, Sep. 20, 1950. Minimum discharge during regulation from unknown source. Minimum discharge for current water year also occurred Sept. 11.

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	10,900	1,500	5,600	2,860	4,620	9,220	e10,900	1,850	1,060	1,580	5,070	945
2	9,370	1,440	5,730	2,880	4,700	e11,400	9,420	1,760	1,420	1,580	5,610	900
3	9,720	1,410	5,240	2,730	4,430	e10,600	6,690	1,650	2,200	1,480	3,860	910
4	8,800	1,420	5,020	2,540	4,720	e10,200	8,710	1,680	3,240	1,480	2,820	907
5	6,960	1,440	4,880	2,520	5,840	8,830	e11,000	1,630	3,360	1,280	2,170	893
6	4,860	1,450	4,770	2,490	5,570	6,900	10,600	1,730	2,600	1,220	1,690	884
7	3,570	1,440	4,660	2,440	4,430	6,450	6,710	1,780	2,080	1,190	1,390	874
8	2,560	1,490	4,160	2,380	4,740	5,700	4,540	1,580	2,090	1,330	1,290	833
9	2,190	1,540	3,010	2,350	5,330	6,050	6,000	1,830	3,070	1,750	1,370	824
10	1,840	1,420	2,850	2,270	5,210	8,150	e10,400	1,690	3,220	1,770	2,020	799
11	1,690	1,360	4,020	2,240	5,050	7,530	9,410	1,540	3,530	1,630	2,510	791
12	1,640	1,360	7,950	2,210	4,440	6,600	8,810	1,160	4,590	1,360	3,230	842
13	1,680	2,690	7,080	2,020	3,230	5,450	8,520	1,170	3,360	1,300	3,430	877
14	1,950	3,160	5,290	3,150	3,030	5,040	8,440	1,380	2,880	1,800	2,930	974
15	3,600	3,380	5,410	e13,700	2,950	4,470	12,400	1,370	2,720	1,850	2,460	1,120
16	3,000	5,000	5,310	e18,200	2,940	4,440	11,100	1,250	2,450	1,510	1,860	976
17	2,310	6,480	5,070	e15,700	2,890	7,780	7,230	1,070	2,100	1,300	1,440	903
18	1,940	4,900	5,370	8,830	2,630	e13,700	4,300	1,010	1,410	1,210	1,370	930
19	1,760	4,570	6,200	9,690	2,430	e15,400	2,970	1,010	1,250	1,580	1,800	904
20	1,640	3,780	6,170	e13,200	2,270	e12,300	2,650	985	1,230	1,490	2,050	882
21	1,570	2,270	5,920	e14,700	2,200	e8,650	2,460	1,300	1,100	1,380	1,760	1,590
22	1,790	1,970	5,650	11,400	2,240	e9,260	2,250	1,550	945	1,310	1,610	1,890
23	2,190	2,130	5,400	4,500	2,250	e10,100	2,410	1,430	996	1,360	1,400	1,380
24	1,660	2,590	3,820	3,690	2,770	e8,740	2,380	1,530	1,020	2,380	1,450	1,130
25	1,550	3,150	2,470	3,370	4,450	7,030	2,060	2,030	1,000	1,780	1,380	996
26	1,530	3,310	2,730	2,780	5,960	7,410	1,760	2,050	1,010	1,370	1,180	901
27	1,510	3,200	3,080	2,650	5,350	6,730	1,670	1,880	1,000	1,180	1,130	880
28	1,520	3,580	2,860	2,880	5,040	6,290	1,660	1,530	1,040	1,070	1,060	856
29	1,510	4,420	2,620	3,270	---	e10,100	1,620	1,190	1,450	3,150	1,030	833
30	1,500	5,070	2,610	3,560	---	e13,200	1,830	1,080	1,610	5,920	991	830
31	1,510	---	2,720	4,170	---	e11,500	---	1,110	---	4,180	988	---
TOTAL	99,820	82,920	143,670	171,370	111,710	265,220	180,900	45,805	61,031	54,770	64,349	29,254
MEAN	3,220	2,764	4,635	5,528	3,990	8,555	6,030	1,478	2,034	1,767	2,076	975
MAX	10,900	6,480	7,950	18,200	5,960	15,400	12,400	2,050	4,590	5,920	5,610	1,890
MIN	1,500	1,360	2,470	2,020	2,200	4,440	1,620	985	945	1,070	988	791

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

MEAN	3,080	3,098	4,188	7,032	8,287	9,833	6,879	3,636	3,305	2,864	2,946	3,267
MAX	10,230	10,190	11,360	17,240	24,770	21,520	18,510	11,770	14,200	9,262	12,430	18,950
(WY)	(2000)	(1996)	(1984)	(1998)	(1998)	(1998)	(2003)	(1989)	(1982)	(1995)	(2003)	(1996)
MIN	979	978	1,004	1,633	2,799	2,510	1,508	882	846	699	701	935
(WY)	(1987)	(2002)	(2002)	(2001)	(1986)	(2002)	(1986)	(2002)	(2002)	(2002)	(2002)	(1990)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1982 - 2005*	
ANNUAL TOTAL	1,436,565		1,310,819		4,850	
ANNUAL MEAN	3,925		3,591		1,636	
HIGHEST ANNUAL MEAN					9,689	2003
LOWEST ANNUAL MEAN					1,636	2002
HIGHEST DAILY MEAN	23,400	Sep 9	18,200	Jan 16	60,000	Sep 8, 1996
LOWEST DAILY MEAN	985	May 18	791	Sep 11	154	Aug 13, 1999
ANNUAL SEVEN-DAY MINIMUM	1,180	Jul 15	834	Sep 7	408	Aug 7, 2002
MAXIMUM PEAK FLOW			NOT DETERMINED		NOT DETERMINED	
MAXIMUM PEAK STAGE			10.89	Jan 16	26.75	Sep 8, 1996
INSTANTANEOUS LOW FLOW			779*	Sep 10	36*	Aug 13, 1999
10 PERCENT EXCEEDS	7,800		8,670		12,700	
50 PERCENT EXCEEDS	2,660		2,380		2,380	
90 PERCENT EXCEEDS	1,440		1,030		984	

\* Regulated period only (1982-2005). See REMARKS.

e Estimated.

