

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

LOCATION.--Lat 34°50'06", long 78°49'26", 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.

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 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. Minimum discharge for current water year due to fish lockage.

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	646	7,070	1,660	9,400	3,020	21,400	13,900	4,010	15,900	3,040	8,780	2,640
2	588	7,150	1,550	8,980	5,040	20,300	15,000	3,070	12,600	4,390	8,160	3,600
3	605	6,500	1,460	11,700	4,500	22,700	14,800	2,810	10,700	12,600	13,700	6,350
4	598	6,070	1,590	11,100	4,180	23,600	12,900	2,630	7,130	23,400	13,200	7,530
5	608	4,440	e2,210	9,020	4,740	21,800	8,280	2,540	5,520	15,300	14,300	6,560
6	583	2,910	4,780	7,990	4,580	19,900	7,580	3,380	4,720	13,700	21,300	6,110
7	555	3,660	10,300	7,020	5,200	22,700	7,090	5,060	8,100	9,380	22,800	7,040
8	532	4,840	9,000	5,390	8,090	23,000	7,610	7,670	8,370	7,910	20,200	5,060
9	547	4,900	7,630	4,250	8,870	20,300	14,300	8,180	8,350	4,450	21,900	5,950
10	551	4,860	10,600	3,720	7,150	20,500	27,600	5,400	11,600	5,030	23,900	7,170
11	708	4,440	12,400	3,130	7,330	19,200	35,100	3,290	11,200	6,020	27,400	5,160
12	9,160	4,830	11,400	2,750	9,490	17,400	40,200	2,490	11,000	6,110	28,600	2,670
13	18,500	6,840	11,200	2,600	10,000	14,500	38,500	1,980	11,200	4,940	23,400	2,260
14	19,700	11,000	13,000	2,570	9,190	10,300	35,900	1,670	10,900	6,920	18,400	2,100
15	9,610	14,700	18,000	2,450	7,280	7,170	27,000	1,490	10,400	7,910	18,200	1,960
16	6,660	11,100	11,600	2,310	4,810	6,780	20,800	1,440	10,400	7,420	15,700	1,900
17	9,980	7,290	10,400	2,350	5,050	12,200	20,700	1,650	11,500	11,800	13,100	1,860
18	14,400	11,900	15,800	2,290	5,360	14,000	19,700	1,620	11,300	14,400	12,600	1,950
19	15,800	17,800	16,700	2,300	5,870	16,700	18,800	2,370	12,400	9,120	8,280	2,960
20	12,000	16,800	9,710	2,260	7,900	18,600	18,200	4,050	16,400	7,670	8,050	6,090
21	11,700	16,200	7,370	2,170	9,400	25,200	17,900	5,660	18,400	6,690	7,970	8,660
22	11,700	13,700	7,930	2,050	8,770	27,800	18,100	5,820	12,500	5,420	5,770	7,810
23	7,850	9,660	7,540	2,060	11,900	27,200	17,900	7,250	7,300	4,070	4,080	7,930
24	3,300	8,770	6,790	2,010	21,300	26,200	17,100	13,800	4,460	2,970	3,620	8,920
25	2,140	7,310	7,390	1,930	18,200	23,400	16,500	15,900	3,090	3,490	3,450	15,000
26	1,770	4,350	13,000	2,030	17,500	21,800	14,400	25,500	2,460	4,320	3,630	17,700
27	1,590	2,530	18,500	1,950	15,800	19,700	14,000	27,700	2,340	4,060	3,850	e12,600
28	1,370	1,950	14,800	1,930	18,100	18,300	14,700	26,300	2,260	3,310	3,180	e8,580
29	1,400	1,750	9,520	2,010	---	17,300	11,300	21,300	2,790	3,030	2,770	e8,270
30	1,810	1,700	11,400	1,830	---	e16,300	9,540	16,900	2,900	5,620	2,600	e6,000
31	4,020	---	10,500	2,090	---	13,800	---	15,200	---	8,510	2,380	---
TOTAL	170,981	227,020	295,730	125,640	248,620	590,050	555,400	248,130	268,190	233,000	385,270	188,390
MEAN	5,516	7,567	9,540	4,053	8,879	19,030	18,510	8,004	8,940	7,516	12,430	6,280
MAX	19,700	17,800	18,500	11,700	21,300	27,800	40,200	27,700	18,400	23,400	28,600	17,700
MIN	532	1,700	1,460	1,830	3,020	6,780	7,090	1,440	2,260	2,970	2,380	1,860

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

MEAN	3,103	3,136	4,119	7,306	8,568	10,120	7,097	3,757	3,424	2,966	2,919	3,122
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1982 - 2003*	
ANNUAL TOTAL	1,196,828		3,536,421		4,951	
ANNUAL MEAN	3,279		9,689		9,689	
HIGHEST ANNUAL MEAN					1,636	2003
LOWEST ANNUAL MEAN					60,000	2002
HIGHEST DAILY MEAN	20,400	Jan 25	40,200	Apr 12	154	Sep 8, 1996
LOWEST DAILY MEAN	316	Aug 8	532	Oct 8	408	Aug 13, 1999
ANNUAL SEVEN-DAY MINIMUM	408	Aug 7	568	Oct 4	408	Aug 7, 2002
MAXIMUM PEAK FLOW			41,200	Apr 12	NOT DETERMINED	
MAXIMUM PEAK STAGE			24.66	Apr 12	26.75	Sep 8, 1996
INSTANTANEOUS LOW FLOW			498	Oct 8	36*	Aug 13, 1999
10 PERCENT EXCEEDS	9,680		20,200		13,400	
50 PERCENT EXCEEDS	1,400		7,910		2,360	
90 PERCENT EXCEEDS	571		1,970		976	

e Estimated.

* Regulated period only (1982-2003). See REMARKS.

