

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 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.

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	e3,600	4,880	e2,260	2,490	2,780	8,970	1,950	1,890	2,270	2,910	5,170	20,800
2	e2,500	3,890	e2,200	2,400	2,920	9,340	2,190	1,980	1,760	2,990	4,430	12,900
3	e2,200	3,130	e2,250	2,380	3,060	8,780	2,650	7,130	1,340	2,600	2,990	9,610
4	1,860	2,730	e2,200	2,360	4,260	8,850	3,050	12,900	1,130	2,370	2,620	7,800
5	1,760	2,520	e2,510	2,390	7,980	8,330	2,680	9,890	1,990	2,180	2,520	5,920
6	1,700	2,400	2,650	2,710	8,430	6,260	2,370	7,990	2,800	1,920	2,810	3,210
7	1,650	2,390	2,720	2,880	6,620	4,870	2,610	7,360	2,210	1,720	2,710	2,430
8	1,700	2,410	2,660	2,780	7,550	4,230	2,780	5,940	1,850	1,910	2,330	3,820
9	1,820	e2,380	2,590	2,760	9,180	3,810	2,720	4,540	1,660	1,910	1,890	23,400
10	2,000	e2,330	2,410	2,660	8,780	3,880	2,500	3,260	1,670	1,570	1,350	23,300
11	2,120	e2,250	4,350	2,560	8,190	3,650	3,170	2,090	1,910	1,510	1,020	22,200
12	2,120	2,360	8,300	2,450	7,140	3,490	3,590	1,850	1,930	1,550	1,060	20,100
13	2,090	2,270	8,150	2,450	6,190	3,380	4,170	1,730	2,080	1,550	1,400	17,100
14	2,120	e2,020	8,500	2,480	7,710	2,990	4,550	1,810	1,660	1,800	1,910	6,540
15	2,280	e1,900	10,800	2,480	7,810	2,900	5,080	1,850	1,360	1,430	4,140	6,450
16	2,270	e1,820	12,000	2,500	7,400	3,020	7,220	1,790	1,390	1,180	11,800	5,060
17	2,240	1,870	11,300	2,480	7,740	4,700	6,400	1,340	1,510	1,060	9,630	4,140
18	2,260	1,800	10,400	2,580	7,640	6,420	3,600	985	1,870	1,030	6,490	6,430
19	1,990	1,950	10,900	2,640	8,980	7,140	2,770	1,070	2,230	1,050	7,260	6,980
20	1,770	2,870	10,200	2,740	8,330	7,370	2,560	1,100	2,160	1,050	8,000	6,850
21	2,000	e3,300	7,860	2,810	5,560	7,830	2,860	1,310	2,070	1,440	6,130	7,640
22	2,990	3,480	7,070	2,650	4,930	7,100	2,740	1,320	1,950	1,580	4,500	7,520
23	3,020	3,440	4,930	2,450	4,480	4,600	2,340	1,390	1,650	1,380	6,730	5,260
24	2,710	2,990	3,470	2,320	4,140	2,890	2,080	2,290	1,540	1,430	4,870	3,750
25	1,840	e2,760	3,380	2,120	3,960	2,470	1,690	2,500	1,380	1,540	3,330	2,530
26	1,660	e2,560	3,160	2,260	3,890	2,430	1,460	2,290	2,260	1,460	2,220	2,230
27	1,860	e2,370	2,970	2,340	5,170	2,500	1,580	1,760	3,370	1,350	1,820	2,050
28	1,960	2,310	2,840	2,390	7,250	2,170	1,660	1,300	2,940	1,350	1,670	2,270
29	4,210	e2,300	2,680	2,370	7,870	1,930	1,520	1,200	2,450	1,730	1,570	3,520
30	e5,710	e2,340	2,560	2,480	---	1,730	1,460	1,280	2,690	1,940	4,720	10,400
31	5,520	---	2,540	2,570	---	1,750	---	2,030	---	2,670	17,800	---
TOTAL	75,530	78,020	162,810	77,930	185,940	149,780	88,000	97,165	59,080	53,160	136,890	262,210
MEAN	2,436	2,601	5,252	2,514	6,412	4,832	2,933	3,134	1,969	1,715	4,416	8,740
MAX	5,710	4,880	12,000	2,880	9,180	9,340	7,220	12,900	3,370	2,990	17,800	23,400
MIN	1,650	1,800	2,200	2,120	2,780	1,730	1,460	985	1,130	1,030	1,020	2,050

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

MEAN	3,074	3,112	4,169	7,098	8,472	9,889	6,916	3,729	3,361	2,912	2,984	3,367
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 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1982 - 2004*	
ANNUAL TOTAL	3,159,050		1,426,515			
ANNUAL MEAN	8,655		3,898		4,905	
HIGHEST ANNUAL MEAN					9,689	2003
LOWEST ANNUAL MEAN					1,636	2002
HIGHEST DAILY MEAN	40,200	Apr 12	23,400	Sep 9	60,000	Sep 8, 1996
LOWEST DAILY MEAN	1,440	May 16	985	May 18	154	Aug 13, 1999
ANNUAL SEVEN-DAY MINIMUM	1,750	May 13	1,180	Jul 15	408	Aug 7, 2002
MAXIMUM PEAK FLOW			22,700	Sep 11	NOT DETERMINED	
MAXIMUM PEAK STAGE			13.97	Sep 11	26.75	Sep 8, 1996
INSTANTANEOUS LOW FLOW			926	May 18	36*	Aug 13, 1999
10 PERCENT EXCEEDS	20,200		7,980		13,000	
50 PERCENT EXCEEDS	6,000		2,560		2,380	
90 PERCENT EXCEEDS	2,030		1,530		983	

* Regulated period only (1982-2004). See REMARKS.
 e Estimated.

