

Water-Data Report 2008

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

Cape Fear Basin
Lower Cape Fear Subbasin

LOCATION.--Lat 34°50'45", long 78°49'14" referenced to North American Datum of 1983, Bladen County, NC, 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.

SURFACE-WATER 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 January 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 January 14, 1943, auxiliary nonrecording gage 400 ft downstream on lower end of lock wall; January 14, 1943, to September 30, 1953, auxiliary water-stage recorder at site 600 ft downstream. U.S. Army Corps of Engineers satellite telemetry station.

REMARKS.--Records 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, September 20, 1950. Minimum discharge for period of record due to regulation from unknown source.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY MEAN VALUES
[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	370	1,570	615	7,790	1,120	2,560	3,300	7,830	1,070	870	1,930	7,380
2	378	1,150	601	6,230	1,360	2,050	4,630	4,670	1,190	807	1,620	6,640
3	375	898	603	3,740	1,790	1,750	5,040	3,160	1,080	746	1,440	4,390
4	379	763	585	2,540	2,800	1,520	5,110	2,350	919	757	1,190	2,590
5	387	704	584	1,980	2,400	2,090	7,930	1,900	867	822	1,050	1,730
6	398	669	563	1,640	1,900	9,520	15,100	1,600	816	867	968	8,640
7	427	578	512	1,420	1,620	9,110	15,900	1,390	745	1,480	958	24,700
8	434	533	517	1,250	1,430	9,700	13,600	1,250	782	1,670	1,300	28,000
9	412	506	543	1,220	1,310	12,700	10,900	1,150	827	3,460	1,200	21,000
10	403	520	574	1,160	1,270	10,400	8,080	1,150	806	2,550	1,040	17,300
11	405	528	599	1,110	1,160	6,890	6,490	1,180	755	2,230	1,740	16,800
12	388	518	593	1,130	1,030	6,680	5,780	1,330	736	2,320	1,670	16,900
13	383	503	608	1,100	1,080	7,060	5,540	1,560	732	1,780	1,590	16,200
14	374	506	645	1,050	1,890	5,650	5,250	3,310	700	1,360	1,780	15,200
15	366	517	649	1,010	3,060	5,280	4,880	5,160	1,620	1,150	1,700	12,700
16	366	528	1,170	935	2,860	6,220	4,550	4,910	2,200	1,000	2,000	8,290
17	367	542	1,800	924	2,510	8,470	4,390	4,840	1,470	912	1,810	4,090
18	366	546	1,640	1,120	3,120	8,680	4,140	4,360	1,170	848	1,480	3,180
19	387	552	1,390	1,350	3,050	6,490	3,840	3,980	935	870	1,210	3,230
20	431	542	1,210	1,650	2,710	4,790	3,770	3,970	821	1,040	1,070	3,940
21	427	540	1,160	2,000	2,700	4,200	3,860	3,610	971	1,080	956	3,680
22	399	546	1,090	2,020	2,470	4,170	4,280	2,150	1,130	978	873	3,290
23	380	560	1,010	1,870	2,580	4,050	4,400	1,870	1,040	1,170	817	2,860
24	389	539	1,060	1,650	2,450	3,500	4,010	1,840	1,000	2,070	789	1,940
25	518	519	1,040	1,480	2,260	3,090	3,520	1,780	937	2,320	757	1,650
26	1,180	558	1,100	1,350	2,110	2,910	2,810	1,610	882	1,860	853	2,290
27	3,940	623	1,520	1,260	2,170	2,730	1,890	1,420	824	1,480	2,030	3,220
28	8,210	656	1,610	1,180	2,620	2,590	2,250	1,090	817	1,290	5,520	3,630
29	6,370	658	1,420	1,110	3,180	2,640	3,760	e1,190	804	1,220	11,200	3,720
30	3,650	630	1,430	1,100	---	2,580	9,160	1,320	798	1,170	9,200	3,740
31	2,310	---	2,810	1,100	---	2,660	---	1,130	---	1,160	7,070	---
Total	35,569	19,002	31,251	56,469	62,010	162,730	178,160	80,060	29,444	43,337	68,811	252,920
Mean	1,147	633	1,008	1,822	2,138	5,249	5,939	2,583	981	1,398	2,220	8,431
Max	8,210	1,570	2,810	7,790	3,180	12,700	15,900	7,830	2,200	3,460	11,200	28,000
Min	366	503	512	924	1,030	1,520	1,890	1,090	700	746	757	1,650

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2008, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,880	3,232	4,254	6,767	7,739	9,286	6,673	3,480	3,238	2,752	2,779	3,329
Max	10,230	11,250	11,360	17,240	24,770	21,520	18,510	11,770	14,200	9,262	12,430	18,950
(WY)	(2000)	(2007)	(1984)	(1998)	(1998)	(1998)	(2003)	(1989)	(1982)	(1995)	(2003)	(1996)
Min	979	633	1,004	1,633	2,138	1,794	1,508	882	846	699	629	577
(WY)	(1987)	(2008)	(2002)	(2001)	(2008)	(2006)	(1986)	(2002)	(2002)	(2002)	(2007)	(2007)

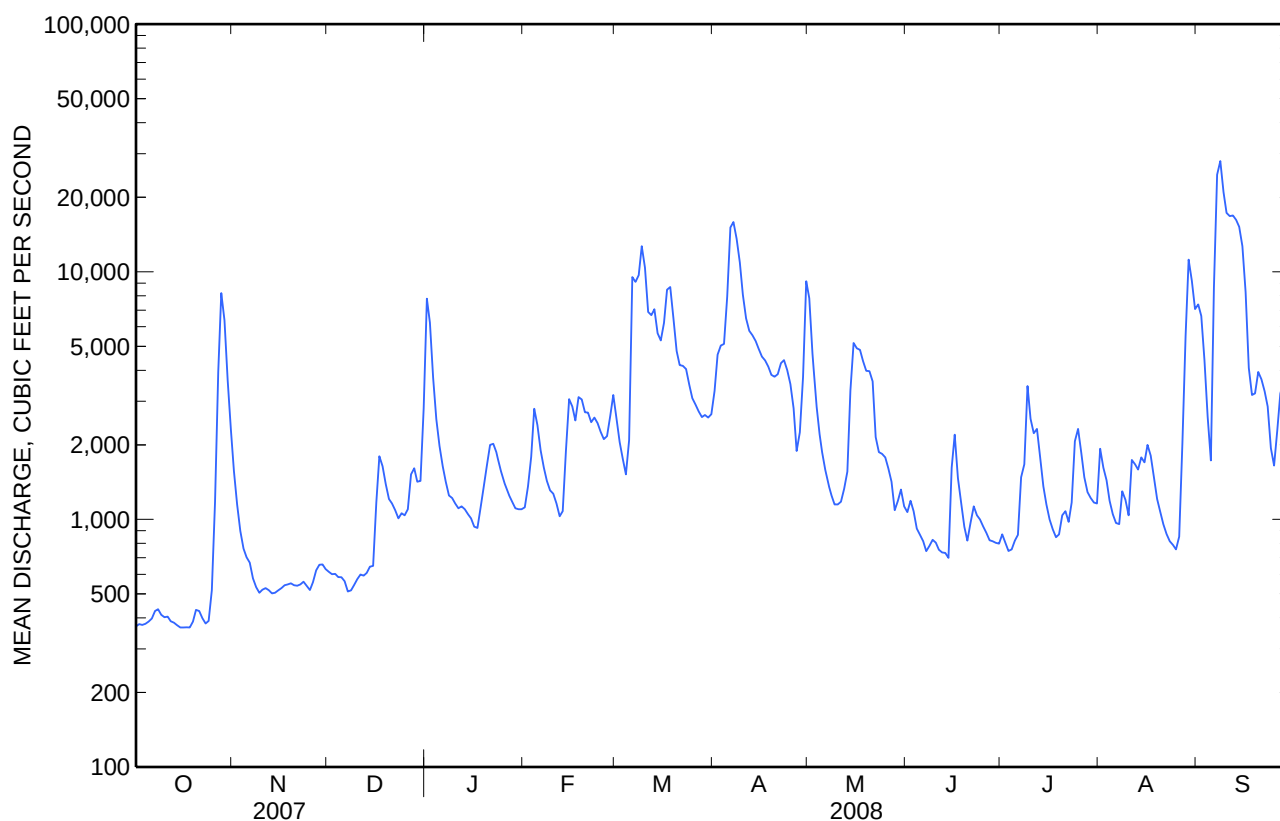
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SUMMARY STATISTICS

	Calendar Year 2007		Water Year 2008		Water Years 1982 - 2008	
Annual total	1,089,244		1,019,763			
Annual mean	2,984		2,786		4,684	
Highest annual mean					9,689	
Lowest annual mean					1,636	
Highest daily mean	17,300	Mar 4	28,000	Sep 8	60,000	Sep 8, 1996
Lowest daily mean	366	Oct 15	366	Oct 15	154	Aug 13, 1999
Annual seven-day minimum	373	Oct 13	373	Oct 13	373	Oct 13, 2007
Maximum peak flow			31,000	Sep 8		
Maximum peak stage			17.98	Sep 8	26.75	Sep 8, 1996
Instantaneous low flow			351	Oct 18	^b 36	Aug 13, 1999
10 percent exceeds	8,590		6,540		12,200	
50 percent exceeds	1,090		1,480		2,310	
90 percent exceeds	457		532		956	

^aHIGHLIGHT, COPY, AND PASTE THIS FOOTNOTE SYMBOL IN THE TABLE AND THEN CLEAN UP THIS LINE Regulated period only (1982-2008). See Remarks.

^bSee Remarks.



02105500 CAPE FEAR RIVER AT WILLIAM O. HUSKE LOCK NEAR TARHEEL, NC—Continued**CLIMATOLOGICAL RECORDS**

PERIOD OF RECORD.--October 2003 to current year. Precipitation records prior to October 2003, are unreliable and should not be used.

INSTRUMENTATION.--Tipping-bucket raingage. Satellite telemetry at station.

REMARKS.--Gage is operated in cooperation with the U.S. Army Corps of Engineers. Precipitation data collected during freezing periods may not be accurately reflected in daily record; consequently, winter record is poor.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2007 TO SEPTEMBER 2008
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.00	0.00	0.35	0.00	0.47	0.00	0.26	0.00	0.01	0.01
2	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.00	0.09	0.00
3	0.24	0.00	0.01	0.00	0.00	0.00	0.62	0.00	0.00	0.00	0.00	0.00
4	0.13	0.00	0.00	0.00	0.00	0.83	0.01	0.02	0.00	0.00	0.00	0.00
5	0.00	0.00	0.00	0.00	0.00	0.01	2.61	0.02	0.02	0.26	0.00	1.18
6	0.16	0.00	0.00	0.00	0.03	0.00	0.01	0.00	0.00	0.87	0.00	3.16
7	0.01	0.00	0.00	0.00	0.01	0.63	0.00	0.00	0.00	0.00	0.91	0.00
8	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	0.47	0.13	0.31
9	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.18	0.00	0.05
10	0.06	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.23	0.01	0.05
11	0.00	0.00	0.00	0.10	0.00	0.00	0.00	0.36	0.00	0.29	0.01	0.01
12	0.00	0.00	0.00	0.00	0.00	0.00	0.29	0.00	0.00	0.00	0.00	0.00
13	0.00	0.00	0.00	0.00	0.47	0.00	0.01	0.00	0.00	0.00	1.14	0.00
14	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.03	0.00	0.00
15	0.00	0.17	0.79	0.00	0.00	0.42	0.00	0.11	1.11	0.00	0.03	0.01
16	0.00	0.00	0.45	0.00	0.00	0.00	0.00	0.15	0.00	0.00	0.08	0.27
17	0.00	0.00	0.00	0.52	0.00	0.00	0.00	0.00	0.00	0.00	0.10	0.07
18	0.02	0.00	0.00	0.00	2.29	0.00	0.00	0.14	0.00	0.54	0.00	0.00
19	0.02	0.00	0.00	0.49	0.00	0.27	0.00	0.01	0.00	0.03	0.00	0.00
20	0.00	0.00	0.00	0.01	0.00	0.00	0.03	0.69	0.12	0.00	0.00	0.00
21	0.00	0.00	0.43	0.01	0.25	0.00	0.04	0.00	0.18	0.00	0.00	0.00
22	0.00	0.02	0.00	0.23	0.71	0.00	0.01	0.00	0.21	0.24	0.00	0.01
23	0.00	0.00	0.27	0.13	0.00	0.00	0.14	0.00	0.00	4.48	0.00	0.00
24	0.47	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.01	0.01	0.00	0.00
25	0.24	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	1.10
26	2.48	0.01	1.18	0.00	0.29	0.00	0.00	0.00	0.00	0.00	3.50	0.27
27	0.53	0.01	0.00	0.00	0.00	0.00	0.79	0.00	0.00	0.00	0.42	0.00
28	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.56	0.00	0.00	0.00	0.00
29	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00
30	0.00	0.00	0.95	0.12	---	0.16	0.00	0.00	0.00	0.43	0.00	0.00
31	0.00	---	0.01	0.00	---	0.56	---	0.00	---	0.52	0.35	---
Total	4.36	0.22	4.10	1.71	4.40	2.93	5.15	2.08	2.03	8.58	6.78	6.50

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