

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 at station.

REMARKS.--Records good except those for 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 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 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,280	2,030	16,700	8,840	3,150	5,840	3,560	1,900	874	2,320	946	518
2	1,260	1,940	14,600	8,550	4,490	5,810	3,370	1,830	868	2,050	851	570
3	1,060	1,830	12,700	9,010	5,710	14,000	3,180	1,720	1,010	1,590	687	640
4	994	1,720	12,300	8,960	6,090	17,300	2,900	1,560	1,480	1,240	701	661
5	964	1,660	10,800	8,260	5,200	14,500	2,870	1,570	1,740	1,050	714	572
6	949	1,620	6,250	8,870	4,410	11,000	2,630	1,600	1,550	957	673	486
7	952	1,730	4,250	13,500	4,400	9,480	2,440	1,540	1,340	937	652	467
8	1,090	3,800	3,660	14,100	4,130	8,660	2,300	1,490	1,220	893	608	466
9	1,300	8,010	3,180	15,500	3,950	7,430	2,160	1,480	1,130	855	605	443
10	1,360	7,970	2,990	16,200	3,830	6,030	1,950	1,530	1,060	855	652	404
11	1,350	6,580	2,880	13,900	3,690	5,770	1,880	1,620	1,010	877	653	393
12	1,290	5,630	2,860	12,900	3,560	5,640	2,290	1,570	967	976	638	405
13	1,260	6,370	2,740	12,100	3,350	5,190	5,010	1,510	940	1,100	626	423
14	1,190	7,160	2,640	9,720	3,440	4,120	7,180	1,780	949	1,070	602	431
15	1,160	6,560	2,570	6,440	9,350	3,560	5,510	2,040	977	970	586	1,390
16	1,110	7,770	2,490	4,700	11,400	3,590	10,500	2,090	1,000	876	577	1,460
17	1,070	12,600	2,340	4,350	8,550	10,500	17,100	2,100	1,200	851	577	1,010
18	1,270	12,900	2,280	4,230	8,200	15,000	17,000	2,100	1,480	916	574	721
19	1,750	10,700	2,220	4,460	7,420	12,300	14,000	2,010	1,370	1,040	581	591
20	3,050	10,100	2,190	4,630	6,950	9,780	13,500	1,700	1,200	1,010	583	548
21	2,630	9,460	2,120	4,690	6,600	9,360	13,800	1,400	1,090	889	570	583
22	2,620	15,500	2,180	5,840	6,410	8,090	13,400	1,210	1,030	832	630	583
23	2,490	31,700	3,740	8,330	5,390	7,220	12,900	1,110	973	792	639	553
24	2,330	33,100	7,680	9,120	3,700	6,550	12,800	1,090	913	765	616	492
25	2,230	30,500	8,690	8,300	3,430	5,830	12,600	1,040	870	734	589	444
26	2,040	25,800	16,900	7,740	3,740	5,570	7,430	1,040	835	718	550	430
27	1,490	19,400	22,200	6,930	5,820	5,390	2,980	1,060	755	703	582	425
28	1,600	e17,500	20,000	6,410	6,760	4,400	2,400	1,070	831	709	601	425
29	2,010	e18,400	15,900	6,080	---	3,400	2,190	1,050	911	772	564	408
30	2,280	e17,400	12,400	4,810	---	3,410	2,040	971	1,220	826	553	381
31	2,250	---	10,300	3,370	---	3,480	---	947	---	865	530	---
Total	49,679	337,440	234,750	260,840	153,120	238,200	203,870	46,728	32,793	31,038	19,510	17,323
Mean	1,603	11,250	7,573	8,414	5,469	7,684	6,796	1,507	1,093	1,001	629	577
Max	3,050	33,100	22,200	16,200	11,400	17,300	17,100	2,100	1,740	2,320	946	1,460
Min	949	1,620	2,120	3,370	3,150	3,400	1,880	947	755	703	530	381

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2007^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,946	3,332	4,379	6,957	7,960	9,442	6,701	3,514	3,325	2,804	2,801	3,133
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	978	1,004	1,633	2,540	1,794	1,508	882	846	699	629	577
(WY)	(1987)	(2002)	(2002)	(2001)	(2006)	(2006)	(1986)	(2002)	(2002)	(2002)	(2007)	(2007)

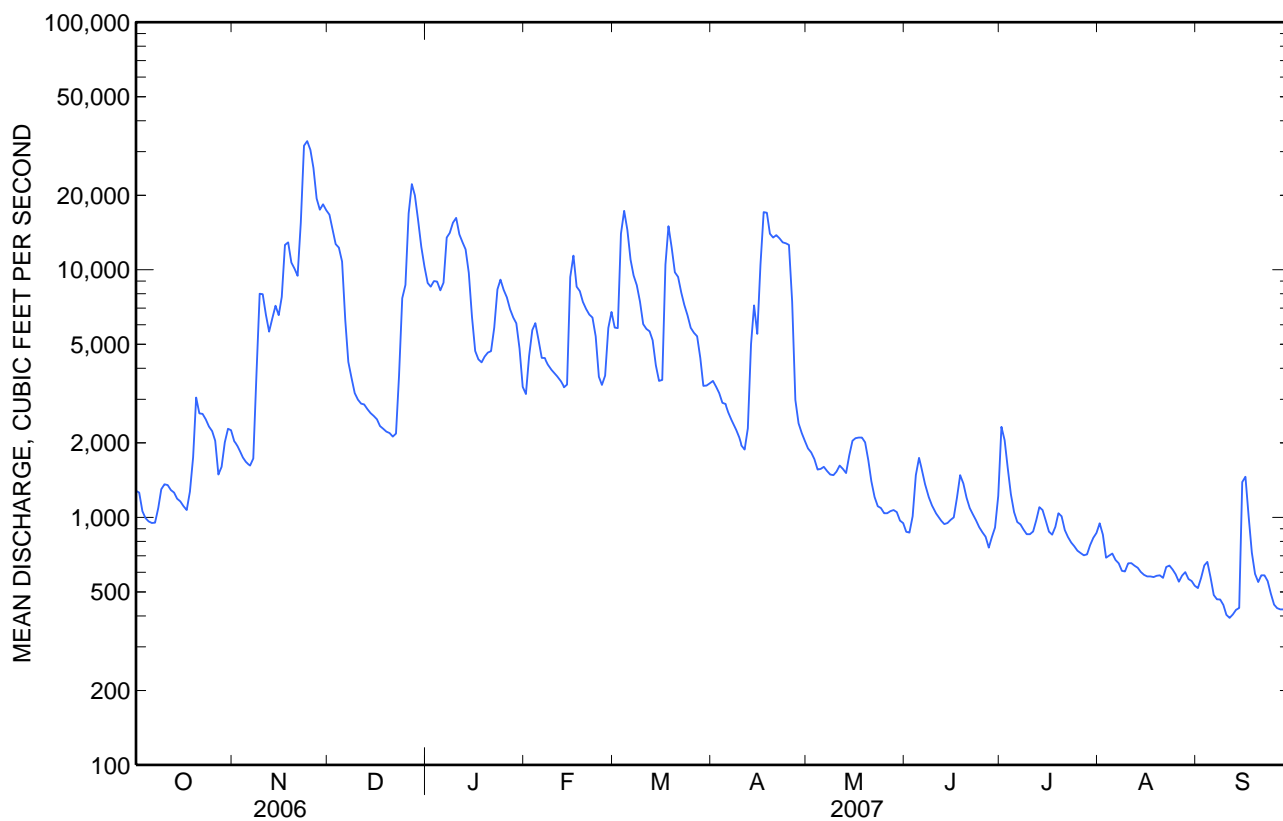
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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1982 - 2007 ^a	
Annual total	1,413,440		1,625,291			
Annual mean	3,872		4,453		4,757	
Highest annual mean					9,689	2003
Lowest annual mean					1,636	2002
Highest daily mean	33,100	Nov 24	33,100	Nov 24	60,000	Sep 8, 1996
Lowest daily mean	785	Apr 14	381	Sep 30	154	Aug 13, 1999
Annual seven-day minimum	856	Apr 11	424	Sep 8	408	Aug 7, 2002
Maximum peak flow			35,100	Nov 24		
Maximum peak stage			21.04	Nov 24	26.75	Sep 8, 1996
Instantaneous low flow			367	Sep 30	^b 36	Aug 13, 1999
10 percent exceeds	8,110		12,600		12,400	
50 percent exceeds	2,190		2,090		2,350	
90 percent exceeds	1,110		590		970	

^a Regulated period only (1982-2007). See Remarks.

^b See Remarks.



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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 2006 TO SEPTEMBER 2007
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.00	0.20	0.04	0.77	0.25	0.00	0.00	0.00	0.02	0.00	0.05
2	0.00	0.00	0.00	0.00	0.08	0.69	0.00	0.00	0.20	0.00	0.00	0.00
3	0.00	0.00	0.08	0.00	0.00	0.00	---	0.01	0.85	0.00	0.00	0.00
4	0.00	0.00	0.00	0.00	0.00	0.00	---	0.00	0.77	0.00	0.00	0.00
5	0.00	0.00	0.00	0.08	0.00	0.00	---	0.02	0.00	0.00	0.00	0.00
6	0.04	0.00	0.00	0.28	0.00	0.00	---	0.07	0.00	0.00	0.33	0.00
7	---	2.04	0.00	0.05	0.00	0.01	---	0.00	0.00	0.17	0.00	0.00
8	---	0.05	0.00	0.60	0.00	0.00	---	0.03	0.00	0.00	0.00	0.00
9	---	0.00	0.00	0.00	0.00	0.00	---	0.03	0.00	0.27	0.14	0.00
10	---	0.00	0.00	0.00	0.00	0.00	---	0.00	0.29	0.00	0.02	0.00
11	0.02	0.00	0.00	0.00	0.00	0.00	---	0.00	0.00	0.16	0.00	0.00
12	0.00	0.34	0.00	0.00	0.00	0.00	---	0.10	0.00	0.00	0.00	0.01
13	0.00	0.00	0.00	0.00	0.46	0.00	---	0.00	0.03	0.00	0.00	0.00
14	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.20
15	0.00	0.00	0.00	0.00	0.00	0.00	1.59	0.00	0.00	0.20	0.00	1.80
16	0.00	---	0.00	0.04	0.00	0.51	0.00	0.00	0.00	0.00	0.00	0.00
17	0.73	---	0.00	0.00	0.00	0.00	0.00	0.88	0.10	0.00	0.00	0.00
18	0.17	0.00	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.20	0.00	0.00
19	0.00	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
20	0.00	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.12	0.04	0.00	0.17
21	0.00	1.48	0.00	0.40	0.00	0.00	0.00	0.00	0.00	0.00	0.22	0.00
22	0.34	2.34	1.23	0.37	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00
23	0.00	0.00	0.12	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.11	0.00
24	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
25	0.00	0.00	1.64	0.00	2.89	0.00	0.00	0.00	0.00	0.00	0.00	0.00
26	0.00	0.00	0.00	0.00	0.02	0.00	0.00	0.00	0.00	0.00	0.06	0.00
27	1.29	---	0.00	0.00	0.00	0.00	0.21	0.00	0.00	0.00	0.11	0.00
28	0.15	---	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
29	0.00	---	0.00	0.00	---	0.09	0.00	0.00	0.39	0.00	0.00	0.00
30	0.00	---	0.00	0.00	---	0.00	0.00	0.00	0.50	0.02	0.00	0.00
31	0.00	---	0.01	0.00	---	0.00	---	0.00	---	0.01	0.00	---
Total	---	---	3.28	2.41	4.23	1.55	---	1.14	3.25	1.09	1.00	2.23

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