

Water-Data Report 2010

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

Cape Fear Basin
Lower Cape Fear Subbasin

LOCATION.--Lat 34°50'08", long 78°49'25" 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 streamgage.

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. Minimum discharge for current water year also occurred October 26.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	673	656	3,970	12,600	9,710	5,750	10,600	1,100	4,640	1,200	1,200	657
2	587	887	4,980	12,200	11,400	5,600	9,270	820	5,940	1,120	979	652
3	560	922	5,660	10,500	12,800	5,930	8,330	714	6,840	1,040	919	716
4	558	851	14,200	7,670	15,100	7,180	7,610	714	7,140	948	890	679
5	590	957	14,600	5,470	15,900	8,680	7,130	761	5,300	896	856	608
6	717	932	14,000	3,660	22,500	8,160	6,510	762	3,180	807	823	579
7	726	919	13,500	3,190	34,000	6,600	5,680	717	2,410	777	922	606
8	682	810	12,600	3,050	33,600	5,560	4,780	682	1,910	762	779	603
9	661	782	10,600	2,920	34,600	4,710	4,020	620	1,640	839	723	631
10	630	847	11,600	2,810	28,200	3,990	3,760	560	1,400	1,100	724	649
11	553	2,990	14,400	2,750	23,100	3,640	3,460	528	1,300	1,320	721	578
12	586	9,900	14,200	2,760	21,100	3,860	3,350	525	1,170	1,060	706	574
13	701	13,200	14,100	2,630	19,400	4,820	3,130	553	1,020	957	687	581
14	640	13,900	13,200	2,220	18,000	8,370	2,600	581	1,050	1,040	605	609
15	760	15,600	12,500	2,010	16,900	10,300	2,330	552	1,040	992	533	593
16	805	14,600	14,400	2,080	15,900	9,870	2,070	537	1,040	988	648	557
17	769	13,300	10,900	2,450	15,200	9,300	1,640	820	1,330	971	809	597
18	647	11,500	5,650	7,450	14,700	8,380	1,320	1,880	1,280	1,050	712	610
19	601	12,200	4,990	13,300	14,200	6,810	1,190	2,950	1,380	1,230	1,130	573
20	604	11,400	7,180	12,600	13,500	4,450	1,150	6,760	1,390	1,080	1,930	573
21	586	8,450	8,890	11,400	10,700	3,890	1,160	7,430	1,330	1,070	1,960	576
22	589	5,850	8,970	11,500	9,800	3,670	1,190	6,190	1,240	1,040	1,400	566
23	558	4,730	9,680	13,900	8,960	3,570	1,200	4,330	1,170	952	1,280	549
24	534	5,030	9,120	14,300	7,560	3,430	1,110	3,460	990	858	1,340	560
25	509	6,890	7,120	12,000	7,240	3,330	1,020	4,390	902	746	2,130	530
26	508	7,190	6,780	16,100	5,560	3,260	1,140	4,740	1,160	734	2,170	543
27	553	5,380	13,100	19,500	4,950	3,130	1,390	4,500	1,320	764	1,460	2,420
28	669	4,580	15,100	20,000	4,660	2,640	1,480	4,010	1,200	1,280	952	4,530
29	717	4,040	13,800	17,300	---	3,950	1,460	4,270	1,100	2,440	725	3,060
30	643	3,740	13,200	e15,000	---	8,890	1,390	4,580	1,140	2,510	696	5,570
31	576	---	12,600	e11,000	---	11,100	---	4,310	---	1,820	726	---
Total	19,492	183,033	335,590	276,320	449,240	182,820	102,470	75,346	63,952	34,391	32,135	31,129
Mean	629	6,101	10,830	8,914	16,040	5,897	3,416	2,431	2,132	1,109	1,037	1,038
Max	805	15,600	15,100	20,000	34,600	11,100	10,600	7,430	7,140	2,510	2,170	5,570
Min	508	656	3,970	2,010	4,660	2,640	1,020	525	902	734	533	530

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1982 - 2010^a, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	2,758	3,282	4,534	6,778	7,844	9,230	6,506	3,381	3,209	2,631	2,671	3,168
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	629	633	1,004	1,633	2,138	1,794	1,508	882	846	699	629	577
(WY)	(2010)	(2008)	(2002)	(2001)	(2008)	(2006)	(1986)	(2002)	(2002)	(2002)	(2007)	(2007)

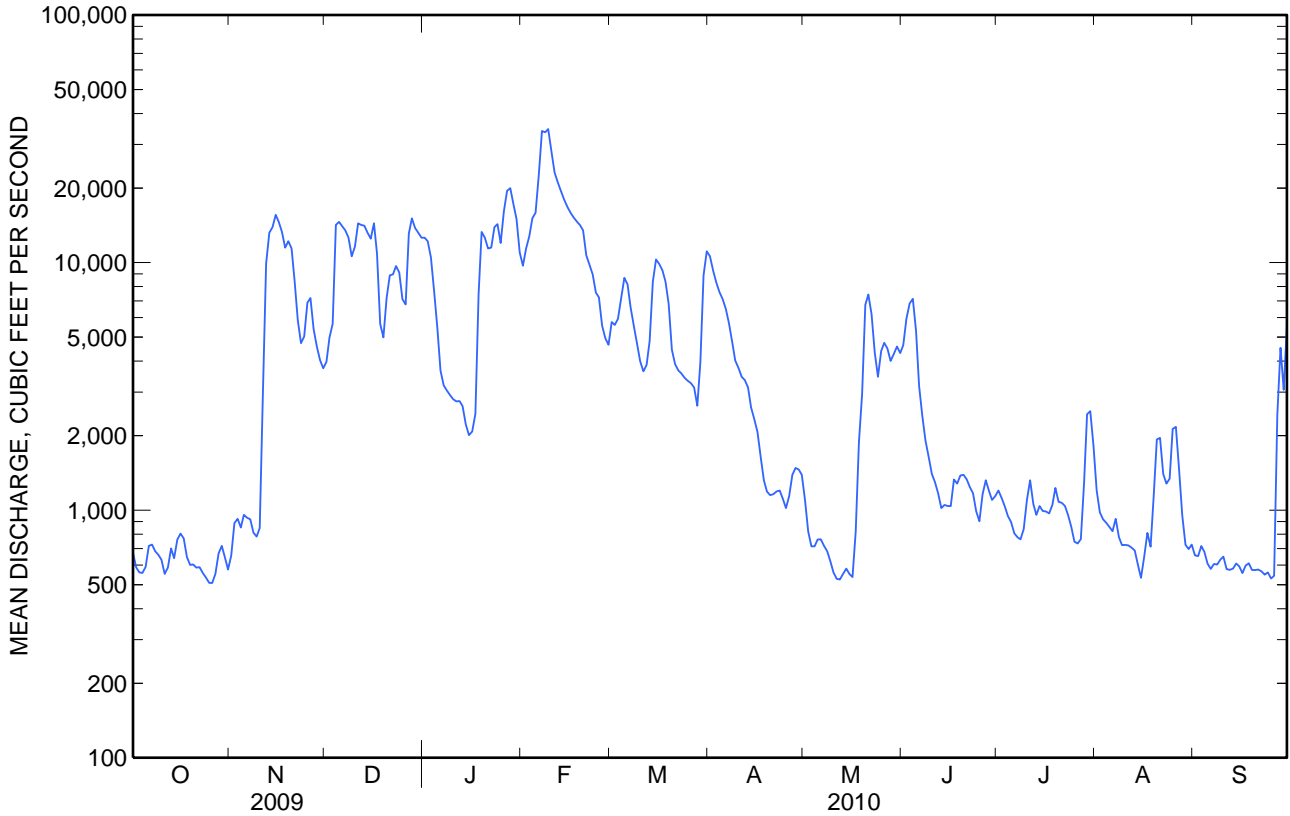
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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1982 - 2010 ^a	
Annual total	1,512,726		1,785,918			
Annual mean	4,144		4,893		4,649	
Highest annual mean					9,689	2003
Lowest annual mean					1,636	2002
Highest daily mean	23,300	Mar 3	34,600	Feb 9	60,000	Sep 8, 1996
Lowest daily mean	457	Sep 21	508	Oct 26	154	Aug 13, 1999
Annual seven-day minimum	488	Sep 15	548	May 10	373	Oct 13, 2007
Maximum peak flow			34,700	Feb 9	Not Determined	
Maximum peak stage			21.39	Feb 9	26.75	Sep 8, 1996
Instantaneous low flow			^b 489	Oct 25	^b 36	Aug 13, 1999
10 percent exceeds	12,300		13,500		12,100	
50 percent exceeds	2,130		2,080		2,290	
90 percent exceeds	655		595		932	

^a Regulated period only (1982-2010). See Remarks.

^b See 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.

PRECIPITATION, TOTAL, INCHES
WATER YEAR OCTOBER 2009 TO SEPTEMBER 2010
DAILY SUM VALUES

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	0.00	0.01	0.00	0.02	---	0.00	0.00	0.00	0.66	0.01	---	---
2	0.01	0.00	0.81	0.02	---	0.74	0.00	0.00	0.01	0.00	---	---
3	0.01	0.00	0.01	0.00	---	0.21	0.00	0.00	0.31	0.00	---	---
4	0.00	0.00	0.08	0.00	0.00	0.00	0.00	0.02	0.00	0.00	---	---
5	0.58	0.00	0.39	0.00	1.58	0.00	0.00	0.00	0.00	0.00	---	---
6	0.03	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---
7	0.00	0.00	0.00	0.00	0.00	0.00	0.01	0.00	0.00	0.00	---	---
8	0.00	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---
9	0.00	0.00	1.34	0.00	0.45	0.00	0.07	0.00	0.00	0.12	---	---
10	0.00	2.24	0.00	0.00	0.00	0.02	0.00	0.00	0.10	1.06	---	---
11	0.00	3.16	0.00	0.00	0.00	0.66	0.00	0.00	0.00	0.00	---	---
12	0.10	0.39	0.01	0.00	---	0.40	0.00	0.00	0.00	0.02	---	---
13	0.00	0.03	0.04	0.00	---	0.51	0.00	0.00	0.00	0.00	---	---
14	0.36	0.00	0.00	0.00	---	0.00	0.00	0.00	0.00	0.00	---	---
15	0.08	0.00	0.01	0.00	---	0.00	0.00	0.00	0.00	0.00	---	---
16	0.00	0.00	0.00	0.07	0.00	0.00	0.00	1.99	0.00	0.00	---	---
17	0.00	0.00	0.00	0.96	0.00	0.00	0.00	0.66	0.00	0.00	---	---
18	0.00	0.09	0.58	0.00	0.00	0.00	0.00	0.06	0.00	0.25	---	---
19	0.01	0.01	0.05	0.00	0.00	0.00	0.00	0.07	0.00	0.00	---	---
20	0.00	0.00	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	---	---
21	0.00	0.00	0.00	0.76	0.00	0.00	0.16	0.00	0.00	0.00	---	0.00
22	0.00	0.58	0.00	0.16	0.51	0.20	0.00	0.00	0.00	0.00	---	0.00
23	0.00	0.12	0.00	0.00	0.00	0.00	0.00	0.71	0.00	0.00	---	0.00
24	0.00	0.00	0.00	0.03	0.20	0.00	0.00	0.40	0.00	0.00	---	0.00
25	0.00	0.00	0.62	0.41	0.01	0.00	0.10	0.02	5.05	0.00	---	0.00
26	0.02	0.01	0.01	0.00	0.00	0.06	0.00	0.00	0.14	0.00	---	1.65
27	0.28	0.00	0.00	0.00	0.00	0.00	0.05	0.00	0.00	0.00	---	3.19
28	0.12	0.00	0.00	0.00	0.06	0.01	0.01	0.00	0.00	0.00	---	0.20
29	0.00	0.00	0.00	0.00	---	1.43	0.00	0.00	0.00	0.00	---	1.89
30	0.00	0.20	0.08	---	---	0.00	0.00	0.00	0.01	---	---	1.14
31	0.13	---	0.29	---	---	0.00	---	0.09	---	---	---	---
Total	1.73	6.84	4.45	---	---	4.24	0.40	4.02	6.28	---	---	---

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