

## 02091814 NEUSE RIVER NEAR FORT BARNWELL, NC

LOCATION.--Lat 35°18'50", long 77°18'10", Craven County, Hydrologic Unit 03020202, on left bank 0.2 mi upstream from bridge on Secondary Road 1470, 1.5 mi upstream from Core Creek and 2.0 mi east of Fort Barnwell.

DRAINAGE AREA.--3,900 mi<sup>2</sup>.

## WATER-DISCHARGE RECORDS

PERIOD OF RECORD.--Occasional measurements water years 1955-1995, October 1996 to current year.

REVISED RECORDS.--WDR NC-02-1A: 2001(M).

GAGE.--Water-stage recorder and acoustic velocity meter. Datum of gage is at NGVD of 1929. Satellite telemetry at station.

REMARKS.--Records good, except those for estimated daily discharges, which are fair. Maximum gage height for period of record, from floodmarks. Flow regulated by Falls Lake (station 02087182) and is affected by both astronomical and wind tides.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	2,720	1,040	3,790	2,870	3,160	3,810	6,810	1,720	1,070	1,420	2,860	712
2	2,480	1,040	4,170	2,960	3,150	3,920	7,040	1,640	1,080	1,370	3,510	689
3	2,320	1,010	4,460	3,150	3,390	4,020	7,350	1,540	1,120	1,510	4,030	655
4	2,360	1,040	4,550	3,310	3,600	4,420	7,320	1,510	1,090	1,470	3,970	634
5	2,490	1,030	4,570	3,390	3,710	4,860	7,110	1,530	1,150	1,250	3,490	595
6	2,420	1,020	4,380	3,440	3,790	5,150	7,020	2,020	1,340	1,060	2,740	631
7	2,250	1,020	4,070	3,380	3,980	5,300	6,730	3,480	1,490	987	2,000	628
8	2,110	1,010	3,650	3,230	4,270	5,340	6,680	4,520	1,550	1,030	1,460	590
9	1,990	1,100	3,220	3,030	4,480	5,110	6,530	5,330	1,710	1,010	1,210	553
10	1,800	1,070	3,020	2,830	4,450	4,640	6,380	5,950	1,730	948	1,280	537
11	1,610	1,040	2,930	2,590	4,190	4,310	6,260	6,090	2,240	890	1,720	590
12	1,430	1,040	2,730	2,450	3,850	4,270	5,970	5,860	2,690	1,010	2,320	640
13	1,290	1,460	2,740	2,370	3,430	4,420	5,980	5,140	2,570	992	2,630	594
14	1,340	2,040	e3,100	2,390	3,040	4,560	6,400	4,460	2,170	1,050	2,640	557
15	1,460	2,420	e3,190	2,790	2,700	4,490	6,920	4,000	1,750	1,080	2,220	1,080
16	1,550	2,850	3,050	3,260	2,440	4,250	7,320	3,570	1,390	1,130	1,640	1,520
17	1,990	3,290	2,890	4,010	2,260	4,230	7,530	3,160	1,170	1,050	1,370	1,100
18	2,350	3,320	3,030	4,870	2,170	4,620	7,540	2,680	1,060	983	1,260	936
19	2,340	3,020	3,300	5,520	2,160	5,130	7,600	2,350	945	1,000	1,240	842
20	2,180	2,640	3,500	6,010	2,280	5,730	e7,170	2,250	882	1,030	1,170	828
21	1,970	2,270	3,510	6,460	2,370	6,360	6,410	2,140	852	964	1,150	760
22	1,750	1,970	3,370	6,940	2,240	6,840	5,450	2,070	804	1,070	1,060	788
23	1,590	2,040	3,230	7,220	2,090	7,360	4,690	1,970	722	3,160	958	878
24	1,470	2,790	3,200	7,040	2,020	7,890	4,140	2,090	711	3,880	855	852
25	1,360	3,360	3,110	6,560	2,220	8,310	3,570	2,200	668	3,950	859	898
26	1,310	3,440	2,930	6,150	2,480	8,630	3,040	2,180	669	3,690	960	921
27	1,260	3,390	2,920	5,560	2,770	8,630	2,620	1,970	636	3,280	956	e810
28	1,200	3,520	2,880	4,980	3,310	8,350	2,290	1,680	780	2,620	924	e725
29	1,180	3,560	2,840	4,400	---	7,870	2,060	1,390	937	2,130	887	699
30	1,110	3,590	2,820	3,940	---	7,410	1,870	1,230	1,160	2,080	827	625
31	1,080	---	2,830	3,450	---	7,110	---	1,110	---	2,470	795	---
TOTAL	55,760	63,430	103,980	130,550	86,000	177,340	173,800	88,830	38,136	51,564	54,991	22,867
MEAN	1,799	2,114	3,354	4,211	3,071	5,721	5,793	2,865	1,271	1,663	1,774	762
MAX	2,720	3,590	4,570	7,220	4,480	8,630	7,600	6,090	2,690	3,950	4,030	1,520
MIN	1,080	1,010	2,730	2,370	2,020	3,810	1,870	1,110	636	890	795	537

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2005, BY WATER YEAR (WY)

MEAN	5,005	3,019	3,668	4,886	6,954	6,550	5,929	3,255	2,330	1,964	3,017	5,246
MAX	23,040	6,630	6,969	8,707	19,110	15,340	11,760	6,973	6,429	5,764	7,856	26,590
(WY)	(2000)	(2000)	(1997)	(1998)	(1998)	(1998)	(1998)	(2003)	(2003)	(2003)	(2003)	(1999)
MIN	938	732	952	1,501	1,988	2,715	2,739	893	573	788	659	762
(WY)	(2002)	(2002)	(2002)	(2001)	(2001)	(2002)	(1999)	(2002)	(2002)	(2002)	(2002)	(2005)

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1997 - 2005	
ANNUAL TOTAL	1,316,898		1,047,248		4,301	
ANNUAL MEAN	3,598		2,869		6,376	
HIGHEST ANNUAL MEAN					1,766	
LOWEST ANNUAL MEAN					57,000	
HIGHEST DAILY MEAN	9,420	May 10	8,630	Mar 26	1,766	2003
LOWEST DAILY MEAN	960	Jul 22	537	Sep 10	340	2002
ANNUAL SEVEN-DAY MINIMUM	1,020	Nov 2	580	Sep 8	413	Aug 12, 2002
MAXIMUM PEAK FLOW			9,110	Mar 27	57,200	Sep 20, 1999
MAXIMUM PEAK STAGE			9.99	Mar 27	22.75*	Sep 20, 1999
INSTANTANEOUS LOW FLOW			389	Sep 9	41	Jul 11, 1999
10 PERCENT EXCEEDS	6,810		6,110		8,870	
50 PERCENT EXCEEDS	3,030		2,420		2,730	
90 PERCENT EXCEEDS	1,330		880		867	

\* See REMARKS.  
e Estimated.

