

## 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.

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 2003 TO SEPTEMBER 2004  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	3,790	7,830	2,620	4,950	2,950	6,100	2,420	2,460	1,930	4,540	1,080	2,880
2	3,580	7,980	2,430	4,420	3,110	6,260	2,310	2,830	1,450	4,380	1,460	3,350
3	3,390	7,920	2,320	4,090	3,320	6,440	2,220	e3,940	1,300	4,430	2,220	4,080
4	3,170	7,670	2,270	3,910	3,370	6,590	2,260	e5,050	1,350	4,240	2,530	4,860
5	2,850	7,110	2,430	3,810	3,370	6,590	2,380	6,150	1,410	3,970	2,500	5,620
6	2,410	6,260	2,620	3,660	3,650	6,320	2,480	7,160	1,540	3,710	2,530	6,540
7	2,050	5,670	2,710	3,620	4,230	5,860	2,630	7,990	2,470	3,430	2,640	7,360
8	1,750	5,270	2,920	3,510	4,470	5,250	2,730	8,620	4,030	3,260	2,510	8,150
9	1,900	4,850	3,250	3,370	4,460	4,720	2,510	9,240	4,830	3,030	2,850	8,590
10	2,310	4,550	3,360	e3,230	e4,600	4,260	2,130	9,420	5,270	2,710	3,220	8,520
11	2,520	4,280	4,340	3,090	e4,780	3,980	1,960	8,630	5,330	2,430	3,170	8,020
12	2,640	3,940	5,040	2,990	4,960	3,770	2,590	7,080	5,180	2,170	2,510	7,430
13	2,650	3,680	5,660	2,960	5,080	3,490	3,560	5,340	4,820	1,980	2,210	7,020
14	2,590	3,240	6,710	2,880	5,300	3,270	3,950	4,240	4,060	2,300	2,470	6,820
15	2,560	2,850	8,280	2,860	5,760	3,080	4,320	3,500	3,350	2,170	5,300	6,770
16	2,460	2,610	9,400	2,770	6,410	2,940	4,690	e2,950	2,740	1,800	7,150	6,850
17	2,330	2,400	10,300	2,700	7,130	2,980	5,000	e2,400	2,290	1,620	8,200	6,780
18	2,250	2,240	11,000	2,660	7,790	3,060	5,080	1,860	2,210	1,400	8,610	6,600
19	2,210	2,190	11,400	2,580	8,110	3,510	4,880	1,520	2,410	1,210	8,580	5,950
20	2,110	2,560	11,600	2,510	8,380	3,990	4,550	1,300	2,420	1,130	8,340	5,170
21	1,970	3,080	11,700	2,500	8,460	4,440	4,170	1,240	2,310	998	8,190	4,790
22	1,910	3,620	11,500	2,620	8,360	4,690	3,780	1,160	1,990	960	8,200	4,720
23	1,910	4,200	11,000	2,680	8,030	4,860	3,400	1,110	1,610	1,050	8,330	4,850
24	1,720	4,660	10,500	2,620	7,520	4,780	e3,070	1,380	1,810	1,100	8,470	e4,970
25	1,540	4,810	9,850	2,500	6,800	4,410	e2,740	e1,800	2,420	1,060	8,440	e4,800
26	1,380	4,560	9,370	2,520	6,090	3,990	e2,410	e2,220	2,900	1,220	8,200	e4,380
27	1,310	4,130	8,960	2,500	5,750	3,560	2,510	2,640	2,650	1,510	7,460	e3,960
28	1,340	3,730	8,530	2,560	5,850	3,120	2,580	2,860	2,950	e1,350	6,660	3,530
29	3,720	3,360	7,860	2,610	5,970	2,790	2,500	2,780	3,890	e1,140	5,410	3,170
30	6,130	2,910	6,720	2,720	---	2,580	2,420	2,690	4,340	1,230	4,020	2,920
31	7,380	---	5,690	2,840	---	2,440	---	2,510	---	1,140	3,170	---
TOTAL	81,830	134,160	212,340	95,240	164,060	134,120	94,230	124,070	87,260	68,668	156,630	169,450
MEAN	2,640	4,472	6,850	3,072	5,657	4,326	3,141	4,002	2,909	2,215	5,053	5,648
MAX	7,380	7,980	11,700	4,950	8,460	6,590	5,080	9,420	5,330	4,540	8,610	8,590
MIN	1,310	2,190	2,270	2,500	2,950	2,440	1,960	1,110	1,300	960	1,080	2,880

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2004, BY WATER YEAR (WY)

MEAN	5,406	3,132	3,707	4,971	7,435	6,654	5,946	3,304	2,463	2,001	3,173	5,807
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	1,041
(WY)	(2002)	(2002)	(2002)	(2001)	(2001)	(2002)	(1999)	(2002)	(2002)	(2002)	(2002)	(1997)

02091814 NEUSE RIVER NEAR FORT BARNWELL, NC—Continued

SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1997 - 2004	
ANNUAL TOTAL	2,375,030		1,522,058			
ANNUAL MEAN	6,507		4,159		4,479	
HIGHEST ANNUAL MEAN					6,376	2003
LOWEST ANNUAL MEAN					1,766	2002
HIGHEST DAILY MEAN	17,900	Apr 16	11,700	Dec 21	57,000	Sep 20, 1999
LOWEST DAILY MEAN	1,310	Oct 27	960	Jul 22	340	Jun 27, 2002
ANNUAL SEVEN-DAY MINIMUM	1,590	Oct 22	1,070	Jul 19	413	Aug 12, 2002
MAXIMUM PEAK FLOW			12,200	Dec 21	e57,200	Sep 20, 1999
MAXIMUM PEAK STAGE			10.71	Dec 20	22.75*	Sep 20, 1999
INSTANTANEOUS LOW FLOW			901	Jul 22	41	Jul 11, 1999
10 PERCENT EXCEEDS	12,700		8,020		9,450	
50 PERCENT EXCEEDS	6,170		3,380		2,760	
90 PERCENT EXCEEDS	2,080		1,800		866	

\* See REMARKS.  
e Estimated.

