

02091814 NEUSE RIVER NEAR FORT BARNWELL, NC

LOCATION.--Lat 35°18'44", long 77°18'19", 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 mi².

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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	795	1,830	3,070	7,500	1,820	8,800	11,900	8,430	13,200	1,820	2,920	2,340
2	725	2,270	2,590	7,470	2,010	9,290	10,200	8,600	12,800	e1,780	3,090	2,020
3	681	2,720	2,220	7,310	2,560	9,670	8,790	8,490	12,000	e2,680	3,260	1,800
4	633	3,040	1,970	7,160	3,060	9,950	8,190	8,330	11,000	e3,790	3,320	1,880
5	640	3,200	1,950	7,000	3,260	9,980	7,780	8,090	10,000	e5,700	3,520	2,270
6	599	3,340	2,070	7,020	3,290	10,300	7,600	8,030	9,250	e6,190	3,700	2,500
7	607	3,410	2,370	7,090	3,350	e10,900	7,680	7,980	8,630	e6,330	4,230	2,670
8	567	3,390	2,930	7,180	3,530	11,900	7,650	7,860	8,200	6,580	5,290	2,630
9	630	3,390	3,530	7,160	3,710	12,900	8,110	7,940	7,800	6,970	5,580	2,520
10	563	3,500	4,010	6,980	3,940	13,500	9,340	7,800	7,490	7,340	5,820	2,280
11	585	3,620	5,080	6,540	4,670	14,000	10,700	7,400	7,200	7,530	6,160	2,060
12	655	3,590	5,600	5,700	5,730	14,400	12,400	6,500	6,760	7,340	6,610	2,020
13	787	3,590	5,310	4,120	6,490	14,400	14,000	5,690	6,260	6,990	7,180	1,980
14	1,230	3,740	4,960	3,200	7,030	14,200	15,200	4,250	6,030	7,000	7,850	1,840
15	2,500	4,070	5,160	2,810	7,550	13,900	16,800	3,300	5,930	7,160	8,860	1,750
16	3,280	5,250	5,820	2,520	e7,920	13,200	17,900	2,930	5,930	7,390	10,600	1,630
17	3,650	6,270	6,280	2,350	8,650	12,000	17,900	2,560	5,890	7,590	12,200	1,510
18	3,820	6,940	6,550	2,230	e9,170	10,800	16,800	2,270	6,060	7,550	14,900	1,720
19	3,910	7,500	6,870	2,170	9,330	9,920	15,800	2,640	5,580	7,090	16,800	3,160
20	3,780	8,020	7,170	2,120	9,200	9,490	15,700	3,130	3,800	6,460	16,900	3,520
21	3,240	8,600	7,410	2,090	8,650	10,300	14,700	3,240	3,490	6,380	15,700	3,970
22	2,480	8,720	7,700	2,070	8,280	11,800	14,000	3,340	3,450	6,380	13,700	4,940
23	1,880	8,580	7,840	2,040	8,090	13,100	11,600	4,060	3,500	6,420	11,800	5,440
24	1,660	8,310	7,790	2,010	8,140	13,600	10,100	6,730	e3,610	6,310	10,200	5,670
25	2,070	8,020	7,880	1,960	8,040	13,900	9,070	8,000	3,660	6,260	8,850	5,440
26	2,550	7,610	7,710	1,910	7,950	14,500	8,410	8,770	3,740	6,170	8,020	4,270
27	2,800	7,130	7,500	1,840	8,040	15,100	8,170	10,000	3,580	5,860	7,080	3,710
28	e2,750	6,330	7,410	1,810	8,410	15,700	8,210	11,400	3,200	4,450	6,540	3,750
29	e2,350	5,510	7,360	1,800	---	15,600	8,210	12,600	2,650	3,360	6,170	4,310
30	1,970	3,830	7,470	1,780	---	e14,900	8,330	12,800	2,180	2,990	3,880	4,320
31	1,690	---	7,500	1,790	---	13,700	---	13,000	---	2,820	2,800	---
TOTAL	56,077	155,320	169,080	126,730	171,870	385,700	341,240	216,160	192,870	178,680	243,530	89,920
MEAN	1,809	5,177	5,454	4,088	6,138	12,440	11,370	6,973	6,429	5,764	7,856	2,997
MAX	3,910	8,720	7,880	7,500	9,330	15,700	17,900	13,000	13,200	7,590	16,900	5,670
MIN	563	1,830	1,950	1,780	1,820	8,800	7,600	2,270	2,180	1,780	2,800	1,510

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2003, BY WATER YEAR (WY)

	1997	1998	1999	2000	2001	2002	2003
MEAN	5,801	2,940	3,258	5,242	7,697	6,986	6,346
MAX	23,040	6,630	6,969	8,707	19,110	15,340	11,760
(WY)	(2000)	(2000)	(1997)	(1998)	(1998)	(1998)	(1998)
MIN	938	732	952	1,501	1,988	2,715	2,739
(WY)	(2002)	(2002)	(2002)	(2001)	(2001)	(2002)	(1999)

SUMMARY STATISTICS

FOR 2002 CALENDAR YEAR

FOR 2003 WATER YEAR

WATER YEARS 1997 - 2003

ANNUAL TOTAL	944,707	2,327,177	
ANNUAL MEAN	2,588	6,376	4,525
HIGHEST ANNUAL MEAN			6,376
LOWEST ANNUAL MEAN			1,766
HIGHEST DAILY MEAN	9,300	Feb 1	17,900
LOWEST DAILY MEAN	340	Jun 27	563
ANNUAL SEVEN-DAY MINIMUM	413	Aug 12	599
MAXIMUM PEAK FLOW			18,600
MAXIMUM PEAK STAGE			12.27
INSTANTANEOUS LOW FLOW			382
10 PERCENT EXCEEDS	6,740		12,700
50 PERCENT EXCEEDS	1,940		6,260
90 PERCENT EXCEEDS	574		1,970

02091814 NEUSE RIVER NEAR FORT BARNWELL, NC—Continued

e Estimated.
* See REMARKS.

