

## NEUSE RIVER BASIN

02091814 NEUSE RIVER NEAR FORT BARNWELL, NC

LOCATION.--Lat 35°18'40", long 77°18'20", 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.

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

REMARKS.--Records good, except those for period Oct. 28 to Nov. 16, which are poor. 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 2000 TO SEPTEMBER 2001  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	7350	696	3650	1800	1610	3490	9390	4890	2410	2740	5530	2490
2	7770	660	3320	1760	1570	3300	9030	4150	2820	2350	5710	2550
3	8360	641	2990	1690	1580	3100	8770	3090	3270	1990	5800	3050
4	8550	664	2720	1670	1600	3050	8690	2420	3870	1970	5640	3340
5	8500	600	2510	1700	1720	3360	8860	2050	4510	1830	5170	3110
6	8330	627	2330	1730	1790	3540	9210	1630	4700	1790	4180	2770
7	6560	638	2300	1720	1830	3920	9510	1290	4810	1920	3090	2450
8	5330	642	2340	1710	1930	4590	9690	1280	4850	2810	2310	2180
9	4470	674	2270	1660	2150	5090	9770	1190	4400	3810	1920	1960
10	3560	796	2270	1590	2180	5220	9800	1170	3430	4260	1700	1930
11	2750	741	2230	1590	1960	5150	9710	1130	2460	4420	1500	1880
12	2190	637	2190	1590	1930	4740	9230	1120	1960	4350	1440	1970
13	1880	672	2040	1590	1940	4350	8720	1110	1540	3700	1710	2180
14	1720	751	2120	1620	1950	3960	7710	1050	1480	3240	3060	2340
15	1610	764	2020	1680	1960	3530	6110	950	3440	3360	4130	2160
16	1490	862	2070	1680	2030	3170	6100	881	5320	3600	4940	2030
17	1350	997	2110	1670	2230	3030	6210	876	6080	3070	5330	1910
18	1240	1090	2070	1650	2530	2990	6190	967	6360	2170	5670	1730
19	1180	1330	2090	1670	2780	3180	6220	1150	6410	1590	5940	1470
20	1140	1570	2510	1730	3130	3240	6120	1370	6430	1130	5800	1360
21	1120	1650	3280	1730	3740	4090	6150	1550	6390	944	5420	1280
22	1050	1630	3630	1700	3920	5130	6080	1570	6380	884	7120	1200
23	893	1670	e3350	1790	4070	5940	6010	1490	6310	853	7040	1070
24	963	1790	e2950	2250	3950	5830	5950	1490	6330	873	6320	1030
25	885	1800	e2650	2410	3890	5470	5630	1490	6390	937	6140	1210
26	839	2000	e2400	2290	3880	5930	4960	1530	5710	965	5040	1280
27	828	2170	e2200	2180	3800	7730	4610	1710	5050	856	3980	1570
28	825	2410	e2150	2000	3640	8810	4620	2050	4570	841	3310	2040
29	776	2990	2070	1910	---	9250	4750	2600	3960	1370	2870	2310
30	770	3540	2010	1840	---	9570	4870	2870	3320	3480	2620	1980
31	725	---	1910	1750	---	9560	---	2580	---	5070	2530	---
TOTAL	95004	37702	76750	55350	71290	153310	218670	54694	134960	73173	132960	59830
MEAN	3065	1257	2476	1785	2546	4945	7289	1764	4499	2360	4289	1994
MAX	8550	3540	3650	2410	4070	9570	9800	4890	6430	5070	7120	3340
MIN	725	600	1910	1590	1570	2990	4610	876	1480	841	1440	1030

## STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2001, BY WATER YEAR (WY)

MEAN	7601	2949	3374	5855	8865	6862	5838	2987	2106	1566	2508	7338
MAX	23040	6630	6969	8707	19110	15340	11760	5023	4499	2360	4482	26590
(WY)	2000	2000	1997	1998	1998	1998	1998	1997	2001	2001	2000	1999
MIN	1060	968	1764	1785	2546	3191	2739	1764	988	1126	840	1041
(WY)	1999	1999	1999	2001	2001	1999	1999	2001	1999	1999	1999	1997

## SUMMARY STATISTICS FOR 2000 CALENDAR YEAR FOR 2001 WATER YEAR WATER YEARS 1997 - 2001

ANNUAL TOTAL	1367753	1163693	
ANNUAL MEAN	3737	3188	4793
HIGHEST ANNUAL MEAN			5902
LOWEST ANNUAL MEAN			3188
HIGHEST DAILY MEAN	11200	Feb 3	9800
LOWEST DAILY MEAN	600	Nov 5	600
ANNUAL SEVEN-DAY MINIMUM	639	Nov 2	639
MAXIMUM PEAK FLOW			10400
MAXIMUM PEAK STAGE		10.26	Apr 10
INSTANTANEOUS LOW FLOW		285	Jul 27
10 PERCENT EXCEEDS	8340	6310	9880
50 PERCENT EXCEEDS	2750	2310	2800
90 PERCENT EXCEEDS	995	966	937

e Estimated.

\* See REMARKS.

02091814 NEUSE RIVER NEAR FORT BARNWELL, NC--Continued

