

Water-Data Report 2007

02091814 NEUSE RIVER NEAR FORT BARNWELL, NC

Neuse Basin
Middle Neuse Subbasin

LOCATION.--Lat 35°18'50", long 77°18'10" referenced to North American Datum of 1983, Craven County, NC, Hydrologic Unit 03020202, on left bank 0.25 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.

SURFACE-WATER 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 fair except those for estimated daily discharges, May to September, 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.

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DISCHARGE, CUBIC FEET PER SECOND
WATER YEAR OCTOBER 2006 TO SEPTEMBER 2007
DAILY MEAN VALUES

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	1,610	4,600	15,900	13,000	6,220	3,400	e2,780	2,750	e698	1,400	772	678
2	1,480	4,460	15,200	13,300	5,950	3,770	e2,490	2,090	e679	1,470	837	602
3	1,550	3,970	e13,700	12,800	5,930	4,040	2,320	1,660	e738	1,140	820	580
4	1,470	3,430	e12,100	11,900	6,040	4,070	2,170	1,480	e889	972	733	493
5	1,310	2,850	e10,700	10,400	6,210	4,300	2,040	1,580	990	782	604	467
6	1,290	2,310	9,690	8,960	6,460	4,700	1,950	1,570	1,020	620	493	421
7	1,230	2,010	8,690	7,770	6,530	5,090	1,860	1,630	1,460	e672	e486	425
8	1,220	2,550	8,040	7,280	6,250	5,320	1,730	1,730	1,560	797	e491	407
9	1,390	3,090	8,000	6,930	5,670	5,490	1,640	1,640	1,210	676	e476	518
10	1,640	3,500	7,990	6,850	5,050	5,420	1,540	1,490	940	773	e496	e475
11	1,910	4,230	8,040	7,050	4,520	5,110	1,480	1,350	810	1,090	662	e454
12	1,900	5,020	8,110	7,330	4,100	4,710	1,500	1,270	e730	1,330	895	e446
13	1,830	5,740	7,930	7,460	3,860	4,120	1,430	1,620	e686	1,380	867	424
14	1,730	6,280	7,770	e7,390	3,790	3,600	1,720	1,770	e688	1,170	721	435
15	1,520	6,610	7,540	e7,210	3,840	3,290	2,540	1,520	e676	1,020	727	454
16	1,360	6,830	7,160	e7,000	4,240	3,070	4,390	1,610	e642	1,040	565	545
17	1,310	7,310	6,380	6,770	4,630	3,060	5,370	1,730	e661	1,000	e527	747
18	1,300	7,560	5,070	6,590	5,090	3,140	6,410	1,560	e704	1,160	e500	973
19	1,440	8,270	3,960	6,430	5,240	3,620	6,820	1,490	e693	1,340	e491	1,200
20	1,840	9,670	3,450	6,270	5,310	4,270	6,720	1,350	659	1,280	e484	1,080
21	2,260	11,500	3,170	6,230	5,180	4,790	6,520	1,200	e666	1,660	e476	863
22	2,710	14,100	2,980	6,270	4,850	5,320	6,310	1,100	667	2,380	476	823
23	2,600	18,800	3,370	6,250	4,450	e5,810	6,100	989	e650	2,240	471	686
24	2,290	22,300	3,720	6,330	4,150	6,010	5,860	920	e634	1,590	483	576
25	2,010	22,800	4,020	6,560	3,900	6,070	5,470	795	655	1,100	433	583
26	1,760	21,200	5,310	6,960	3,720	5,720	4,980	e786	860	877	459	539
27	1,600	19,200	6,740	7,410	3,420	5,210	4,650	e768	725	753	e481	520
28	2,250	17,800	8,630	7,640	3,270	4,540	4,470	e753	546	644	e551	481
29	3,270	17,100	10,300	7,740	---	4,040	4,100	e736	e741	577	598	446
30	4,030	16,600	11,600	7,330	---	e3,700	3,550	e725	762	645	670	452
31	4,400	---	12,400	6,750	---	e3,260	---	e717	---	787	676	---
Total	59,510	281,690	247,660	244,160	137,870	138,060	110,910	42,379	24,039	34,365	18,421	17,793
Mean	1,920	9,390	7,989	7,876	4,924	4,454	3,697	1,367	801	1,109	594	593
Max	4,400	22,800	15,900	13,300	6,530	6,070	6,820	2,750	1,560	2,380	895	1,200
Min	1,220	2,010	2,980	6,230	3,270	3,060	1,430	717	546	577	433	407

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 ***** **WARNING** *****

**ONE OR MORE DATA VALUES WITHIN THE SPECIFIED PERIOD HAVE BEEN
 CHANGED SINCE THE STATISTICS WERE COMPUTED. PLEASE RECOMPUTE THE
 STATISTICS TO REMOVE THIS MESSAGE.**

 ***** **WARNING** *****

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1997 - 2007, BY WATER YEAR (WY)

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
Mean	4,473	3,446	4,110	5,065	6,372	5,913	5,307	3,059	2,400	2,045	2,648	4,950
Max	23,040	9,390	7,989	8,707	19,110	15,340	11,760	6,973	6,429	5,764	7,856	26,590
(WY)	(2000)	(2007)	(2007)	(1998)	(1998)	(1998)	(1998)	(2003)	(2003)	(2003)	(2003)	(1999)
Min	938	732	952	1,501	1,988	1,638	1,318	893	573	788	594	593
(WY)	(2002)	(2002)	(2002)	(2001)	(2001)	(2006)	(2006)	(2002)	(2002)	(2002)	(2007)	(2007)

SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1997 - 2007	
Annual total	1,458,422		1,356,857			
Annual mean	3,996		3,717		4,133	
Highest annual mean					6,376 2003	
Lowest annual mean					1,766 2002	
Highest daily mean	22,800	Nov 25	22,800	Nov 25	57,000	Sep 20, 1999
Lowest daily mean	845	Apr 21	407	Sep 8	340	Jun 27, 2002
Annual seven-day minimum	899	Apr 17	449	Sep 6	413	Aug 12, 2002
Maximum peak flow			24,400	Nov 24	57,200	Sep 20, 1999
Maximum peak stage			13.70	Nov 25	^a 22.75	Sep 20, 1999
Instantaneous low flow			198	Sep 7	41	Jul 11, 1999
10 percent exceeds	9,020		7,770		8,590	
50 percent exceeds	2,830		2,040		2,680	
90 percent exceeds	1,120		559		837	

^a See Remarks.

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