

02089000 NEUSE RIVER NEAR GOLDSBORO, NC

LOCATION.--Lat 35°20'15", long 77°59'51", Wayne County, Hydrologic Unit 03020202, on left bank at downstream side of bridge on Secondary Road 1915, 0.2 mi upstream from Stony Creek, 1.5 mi downstream of Seaboard Coast Line Railroad bridge, 3.2 mi south of Wayne County courthouse in Goldsboro, 4.3 mi downstream of Little River, and 135 mi upstream from mouth.

DRAINAGE AREA.--2,399 mi².

PERIOD OF RECORD.--February 1930 to current year.

REVISED RECORDS.--WSP 1333: 1931, 1935. WDR NC-81-1: Drainage area.

GAGE.--Water-stage recorder. Datum of gage is 42.95 ft above NGVD of 1929. Prior to July 24, 1931, nonrecording gage at railroad bridge 1.5 mi upstream at 44.95 ft. July 24, 1931, to Aug. 31, 1948, water-stage recorder at site 2.3 mi upstream at 44.66 ft. National Weather Service telephone telemetry at station. Satellite telemetry at station.

REMARKS.--No estimated discharges. Records good. Flow regulated by Falls Lake (station 02087182). Prior to regulation, maximum discharge: 30,700 ft³/s, Sept. 27, 1945; gage height: 26.72 ft at site and datum then in use; minimum discharge: 76 ft³/s, Sept. 26, 1968. Minimum discharge during regulation also occurred Oct. 3, 1985.

EXTREMES OUTSIDE PERIOD OF RECORD.--Floods of June 1866 and July 1919, reached stages of about 29 and 28 ft, respectively, at site 2.3 mi upstream at present datum, from flood profiles of U.S. Army Corps of Engineers. Flood of Oct. 5, 1929, reached a stage of 27.3 ft at railroad bridge at present datum; discharge, 38,600 ft³/s.

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	2,090	4,020	1,340	1,900	1,910	4,400	1,290	1,380	792	2,740	1,700	4,570
2	1,970	3,200	1,280	1,830	1,880	4,400	1,330	1,440	972	2,210	1,650	5,960
3	1,650	2,450	1,220	1,770	1,820	4,010	1,510	2,500	890	1,660	1,610	6,610
4	1,250	1,990	1,200	1,770	1,940	3,450	1,570	4,440	869	1,420	1,840	6,930
5	1,040	1,680	1,320	1,860	2,670	3,010	1,660	5,700	1,730	1,400	1,980	6,790
6	879	1,510	1,540	1,880	2,820	2,710	1,840	6,330	4,140	1,280	1,740	5,840
7	776	1,420	1,880	1,850	2,520	2,480	1,670	5,770	5,040	1,120	2,150	4,570
8	756	1,410	1,830	1,840	2,740	2,350	1,280	3,750	3,460	1,040	2,870	3,950
9	819	1,490	1,680	1,720	3,350	2,260	1,150	2,340	2,260	937	2,580	4,080
10	868	1,470	1,630	1,640	3,110	2,170	1,130	1,730	1,860	780	1,740	4,710
11	994	1,420	2,250	1,650	2,770	2,060	1,260	1,420	1,840	784	1,250	5,170
12	1,030	1,320	3,240	1,670	3,240	1,940	1,360	1,230	1,520	1,410	990	5,480
13	1,010	1,260	4,250	1,620	3,830	1,800	1,700	1,140	1,500	1,340	1,010	5,380
14	1,000	1,200	4,920	1,610	4,330	1,620	2,390	1,090	1,390	1,020	1,560	4,760
15	1,030	1,120	5,570	1,600	4,840	1,520	3,180	1,070	1,170	1,090	3,090	3,900
16	1,050	1,060	5,970	1,560	5,180	1,540	3,120	983	1,230	890	4,620	3,040
17	1,140	1,020	6,370	1,480	5,300	2,310	2,660	837	1,450	744	5,440	2,550
18	1,090	1,000	6,540	1,430	5,240	3,230	2,520	756	1,320	636	6,120	2,400
19	1,010	1,110	6,350	1,460	5,000	3,490	2,320	694	1,410	551	6,760	3,120
20	1,090	1,590	6,030	1,680	4,650	3,300	2,120	668	1,180	590	7,370	4,040
21	1,240	2,460	5,720	1,730	4,210	3,090	1,960	645	955	705	7,700	4,230
22	969	3,060	5,480	1,610	3,630	2,670	1,840	704	776	614	7,570	3,860
23	804	2,680	5,240	1,510	3,040	2,260	1,750	689	778	582	6,510	3,360
24	737	2,170	5,080	1,460	2,730	1,950	1,620	969	1,550	580	5,060	2,800
25	703	1,830	4,890	1,420	2,540	1,730	1,280	1,070	1,180	1,230	3,970	2,420
26	687	1,600	3,960	1,420	2,380	1,620	1,140	1,090	1,360	968	2,970	2,130
27	686	1,440	2,860	1,440	2,460	1,540	1,260	1,040	2,370	729	1,940	1,900
28	713	1,340	2,420	1,510	3,020	1,490	1,330	889	2,890	821	1,410	1,860
29	1,730	1,280	2,210	1,590	3,900	1,430	1,570	746	2,840	732	1,210	1,770
30	2,940	1,290	2,090	1,680	---	1,370	1,440	674	2,470	592	1,450	1,490
31	4,060	---	1,990	1,810	---	1,340	---	677	---	935	2,680	---
TOTAL	37,811	51,890	108,350	51,000	97,050	74,540	52,250	54,461	53,192	32,130	100,540	119,670
MEAN	1,220	1,730	3,495	1,645	3,347	2,405	1,742	1,757	1,773	1,036	3,243	3,989
MAX	4,060	4,020	6,540	1,900	5,300	4,400	3,180	6,330	5,040	2,740	7,700	6,930
MIN	686	1,000	1,200	1,420	1,820	1,340	1,130	645	776	551	990	1,490

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2004,* BY WATER YEAR (WY)

MEAN	1,853	1,519	2,096	3,280	4,143	5,022	3,919	2,005	1,573	1,443	1,669	2,313
MAX	11,750	5,287	4,546	6,644	12,080	11,400	7,850	7,276	5,530	4,668	4,761	14,650
(WY)	(2000)	(1996)	(1997)	(1993)	(1998)	(1998)	(1989)	(1989)	(1995)	(1989)	(2003)	(1999)
MIN	310	326	615	884	1,374	1,286	631	433	342	394	264	246
(WY)	(1984)	(1988)	(2002)	(1986)	(2001)	(2002)	(1986)	(1986)	(1986)	(1987)	(1983)	(1985)

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SUMMARY STATISTICS	FOR 2003 CALENDAR YEAR		FOR 2004 WATER YEAR		WATER YEARS 1983 - 2004*	
ANNUAL TOTAL	1,399,873		832,884			
ANNUAL MEAN	3,835		2,276		2,648	
HIGHEST ANNUAL MEAN					4,018	2003
LOWEST ANNUAL MEAN					1,040	2002
HIGHEST DAILY MEAN	12,000	Apr 15	7,700	Aug 21	38,200	Sep 20, 1999
LOWEST DAILY MEAN	686	Oct 27	551	Jul 19	162	Sep 10, 1983
ANNUAL SEVEN-DAY MINIMUM	757	Oct 22	608	Jul 18	172	Sep 15, 1985
MAXIMUM PEAK FLOW			7,760	Aug 22	38,500	Sep 20, 1999
MAXIMUM PEAK STAGE			16.26	Aug 22	28.85	Sep 20, 1999
INSTANTANEOUS LOW FLOW			512	Jul 24	157*	Sep 19, 1985
10 PERCENT EXCEEDS	7,260		4,860		6,720	
50 PERCENT EXCEEDS	3,230		1,690		1,440	
90 PERCENT EXCEEDS	1,110		859		412	

* Regulated period only (1983-2004). See REMARKS.

