

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. 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. Minimum discharge for current water year also occurred Sept. 13, 14.

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 2004 TO SEPTEMBER 2005
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	1,500	718	3,180	1,900	2,280	2,440	4,930	957	534	798	2,750	446
2	1,410	719	3,190	2,050	2,360	3,620	5,110	950	568	716	2,370	434
3	1,340	720	3,120	2,000	2,380	3,810	5,160	1,060	621	683	1,910	412
4	1,320	714	2,900	2,030	2,390	3,850	4,810	1,060	878	557	1,440	394
5	1,310	728	2,620	1,910	2,820	3,890	4,350	963	1,140	615	1,100	379
6	1,310	762	2,080	1,770	3,320	3,830	4,250	1,680	1,040	666	868	367
7	1,290	868	1,810	1,650	3,240	3,390	4,220	2,660	924	718	721	357
8	1,170	819	1,750	1,530	2,970	2,920	4,240	3,540	894	634	647	350
9	1,060	769	1,680	1,430	2,760	2,840	4,080	3,400	1,500	518	857	338
10	957	742	1,470	1,350	2,480	3,400	3,760	2,530	2,260	871	1,510	333
11	871	717	1,510	1,280	2,010	3,740	3,900	1,850	1,600	831	2,000	332
12	817	751	2,100	1,250	1,770	3,550	3,830	1,450	1,240	683	2,110	322
13	812	1,170	2,270	1,210	1,460	3,110	3,710	1,310	1,050	579	1,550	314
14	827	1,770	1,960	1,460	1,370	2,780	3,940	1,120	867	521	1,110	487
15	1,620	2,620	1,710	2,700	1,310	2,640	4,530	1,130	743	593	888	516
16	1,980	2,210	2,090	4,450	1,290	2,620	4,810	1,090	654	553	780	502
17	1,610	1,740	2,730	5,040	1,350	2,910	3,920	1,090	589	489	882	479
18	1,340	1,480	2,900	5,370	1,610	4,380	2,900	1,210	526	460	745	434
19	1,160	1,300	2,860	5,330	1,660	5,150	2,400	1,080	466	477	685	436
20	1,010	1,160	2,480	4,950	1,540	5,820	2,080	922	452	620	648	423
21	929	1,180	2,250	4,480	1,300	6,100	1,840	883	461	1,050	558	582
22	875	2,020	2,190	4,210	1,230	5,980	1,660	1,150	447	1,710	474	577
23	837	2,430	2,170	4,080	1,260	5,700	1,470	1,210	417	2,520	454	676
24	817	2,290	1,940	3,840	1,400	5,200	1,370	1,040	388	2,090	734	655
25	779	2,060	1,450	3,460	1,550	4,720	1,290	890	400	1,950	743	521
26	758	2,170	1,460	3,140	2,310	4,790	1,220	781	490	1,590	729	432
27	760	1,830	1,470	2,730	2,420	4,820	1,180	711	587	1,230	670	412
28	742	1,880	1,490	2,280	2,130	4,430	1,080	668	453	884	587	412
29	726	2,490	1,520	1,620	---	3,930	1,050	641	758	847	522	399
30	719	3,250	1,560	1,490	---	4,260	1,010	600	684	885	487	374
31	701	---	1,660	1,650	---	4,670	---	565	---	1,800	478	---
TOTAL	33,357	44,077	65,570	83,640	55,970	125,290	94,100	40,191	23,631	29,138	32,007	13,095
MEAN	1,076	1,469	2,115	2,698	1,999	4,042	3,137	1,296	788	940	1,032	436
MAX	1,980	3,250	3,190	5,370	3,320	6,100	5,160	3,540	2,260	2,520	2,750	676
MIN	701	714	1,450	1,210	1,230	2,440	1,010	565	388	460	454	314

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2005,* BY WATER YEAR (WY)

MEAN	1,816	1,517	2,097	3,255	4,051	4,979	3,885	1,973	1,539	1,421	1,641	2,232
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)

NEUSE RIVER BASIN

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SUMMARY STATISTICS	FOR 2004 CALENDAR YEAR		FOR 2005 WATER YEAR		WATER YEARS 1983 - 2005*	
ANNUAL TOTAL	777,837		640,066		2,603	
ANNUAL MEAN	2,125		1,754		1,040	
HIGHEST ANNUAL MEAN					4,018	2003
LOWEST ANNUAL MEAN					1,040	2002
HIGHEST DAILY MEAN	7,700	Aug 21	6,100	Mar 21	38,200	Sep 20, 1999
LOWEST DAILY MEAN	551	Jul 19	314	Sep 13	162	Sep 10, 1983
ANNUAL SEVEN-DAY MINIMUM	608	Jul 18	335	Sep 7	172	Sep 15, 1985
MAXIMUM PEAK FLOW			6,130	Mar 21	38,500	Sep 20, 1999
MAXIMUM PEAK STAGE			14.13	Mar 21	28.85	Sep 20, 1999
INSTANTANEOUS LOW FLOW			312*	Sep 12	157*	Sep 19, 1985
10 PERCENT EXCEEDS	4,220		3,890		6,580	
50 PERCENT EXCEEDS	1,680		1,320		1,430	
90 PERCENT EXCEEDS	774		487		417	

* Regulated period only (1983-2005). See REMARKS.

