

02089000 NEUSE RIVER NEAR GOLDSBORO, NC

LOCATION.--Lat 35°20'15", long 77°59'50", 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 2002 TO SEPTEMBER 2003
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	388	2,290	1,220	4,910	1,990	6,310	5,780	7,140	6,560	1,060	2,250	1,020
2	376	2,660	1,160	4,960	2,510	6,550	6,060	7,000	6,590	1,390	2,180	1,280
3	357	2,670	1,110	5,030	2,460	6,920	6,140	6,760	6,670	2,640	2,960	1,720
4	343	2,700	1,070	5,140	2,250	7,290	5,950	6,440	6,800	4,720	3,550	1,590
5	335	2,700	1,300	5,240	2,100	7,580	5,700	6,070	6,810	5,600	3,660	1,550
6	325	2,710	1,890	5,160	2,350	7,910	5,560	5,830	6,580	6,180	3,380	1,380
7	316	2,780	3,470	4,750	2,720	8,220	5,600	5,310	6,200	6,140	3,420	1,460
8	295	3,090	3,980	4,070	3,390	8,350	5,850	4,060	5,660	5,630	3,390	1,280
9	284	3,070	3,840	3,070	4,150	8,690	6,510	3,150	4,630	4,960	3,530	1,160
10	273	2,520	2,980	2,140	4,690	9,120	8,470	2,770	4,350	4,380	4,410	1,170
11	333	2,130	2,490	1,860	5,100	9,190	9,150	2,310	4,520	4,370	5,600	1,250
12	396	2,190	2,560	1,700	5,360	8,640	9,860	1,930	4,670	4,910	6,930	1,130
13	2,370	3,180	3,400	1,580	5,480	7,260	10,600	1,680	4,600	5,150	7,850	1,010
14	3,140	3,910	4,080	1,490	5,330	6,490	11,400	1,520	4,400	4,440	8,990	949
15	3,530	4,500	4,460	1,430	5,050	5,740	12,000	1,410	3,640	4,400	9,960	897
16	3,860	4,840	4,800	1,390	4,530	5,560	11,800	1,320	2,640	3,900	10,300	860
17	3,390	5,130	5,100	1,360	4,260	5,670	10,700	1,160	2,290	3,760	9,670	819
18	2,240	5,220	5,350	1,360	3,740	5,960	8,690	1,170	2,690	3,780	7,960	977
19	1,700	5,020	5,470	1,380	3,790	6,180	7,460	1,290	3,030	4,280	6,860	1,420
20	1,320	4,860	5,340	1,360	3,990	6,520	6,870	1,340	3,230	4,150	6,340	1,820
21	1,050	4,760	5,200	1,320	4,370	7,480	6,350	1,750	3,570	3,780	5,800	2,210
22	964	4,660	5,090	1,300	4,480	8,300	6,370	1,910	3,860	3,480	5,520	1,950
23	1,680	4,430	5,030	1,280	4,630	9,290	6,630	2,880	3,910	2,950	5,250	1,680
24	2,190	4,040	5,050	1,240	4,750	10,200	6,900	3,870	3,060	2,650	4,780	1,510
25	2,340	3,320	5,210	1,180	5,050	10,700	7,090	4,460	2,480	2,350	3,710	1,980
26	2,110	2,780	5,380	1,140	5,470	10,500	7,260	6,390	2,000	2,020	2,390	2,190
27	1,440	2,370	5,460	1,170	5,830	8,950	7,440	6,810	1,570	1,800	1,870	2,610
28	1,070	1,900	5,470	1,160	6,180	7,180	7,500	6,860	1,330	1,650	1,510	2,700
29	974	1,690	5,440	1,140	---	5,870	7,410	6,660	1,110	1,510	1,320	2,410
30	1,160	1,400	5,300	1,140	---	5,520	7,260	6,360	1,040	1,550	1,170	2,200
31	1,790	---	5,050	1,240	---	5,520	---	6,160	---	1,850	1,080	---
TOTAL	42,339	99,520	122,750	72,690	116,000	233,660	230,360	123,770	120,490	111,080	147,590	46,182
MEAN	1,366	3,317	3,960	2,345	4,143	7,537	7,679	3,993	4,016	3,583	4,761	1,539
MAX	3,860	5,220	5,470	5,240	6,180	10,700	12,000	7,140	6,810	6,180	10,300	2,700
MIN	273	1,400	1,070	1,140	1,990	5,520	5,560	1,160	1,040	1,060	1,080	819

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2003,* BY WATER YEAR (WY)

MEAN	1,887	1,509	2,029	3,358	4,182	5,146	4,023	2,017	1,564	1,462	1,594	2,233
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 2002 CALENDAR YEAR		FOR 2003 WATER YEAR		WATER YEARS 1983 - 2003*	
ANNUAL TOTAL	589,975		1,466,431			
ANNUAL MEAN	1,616		4,018		2,668	
HIGHEST ANNUAL MEAN					4,018	2003
LOWEST ANNUAL MEAN					1,040	2002
HIGHEST DAILY MEAN	7,100	Jan 28	12,000	Apr 15	38,200	Sep 20, 1999
LOWEST DAILY MEAN	262	Aug 14	273	Oct 10	162	Sep 10, 1983
ANNUAL SEVEN-DAY MINIMUM	278	Aug 8	309	Oct 5	172	Sep 15, 1985
MAXIMUM PEAK FLOW			12,100	Apr 15	38,500	Sep 20, 1999
MAXIMUM PEAK STAGE			20.42	Apr 15	28.85	Sep 20, 1999
INSTANTANEOUS LOW FLOW			270	Oct 10	157*	Sep 19, 1985
10 PERCENT EXCEEDS	4,440		7,260		6,890	
50 PERCENT EXCEEDS	1,080		3,780		1,400	
90 PERCENT EXCEEDS	339		1,160		406	

* Regulated period only (1983-2003). See REMARKS.

