

Water-Data Report 2007

**02089000 NEUSE RIVER NEAR GOLDSBORO, NC**

Neuse Basin  
Middle Neuse Subbasin

LOCATION.--Lat 35°20'15", long 77°59'51" referenced to North American Datum of 1983, Wayne County, NC, 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 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

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 August 31, 1948, water-stage recorder at site 2.3 mi upstream at 44.66 ft. Satellite telemetry at station.

REMARKS.--No estimated daily discharges. Records good. Flow regulated by Falls Lake (station 02087182). Prior to regulation, maximum discharge: 30,700 ft<sup>3</sup>/s, September 27, 1945; gage height: 26.72 ft at site and datum then in use; minimum discharge: 76 ft<sup>3</sup>/s, September 26, 1968. Minimum discharge during regulation also occurred October 3, 1985. Minimum discharge for current water year also occurred September 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 October 5, 1929, reached a stage of 27.3 ft at railroad bridge at present datum; discharge, 38,600 ft<sup>3</sup>/s.

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

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	774	1,540	6,190	6,360	2,920	2,500	1,510	1,060	326	413	542	258
2	713	1,270	5,510	5,100	2,970	2,460	1,450	983	301	576	445	261
3	600	1,050	5,140	4,550	3,550	2,920	1,410	934	556	470	376	259
4	543	885	5,180	4,210	3,850	3,760	1,370	910	522	368	316	247
5	493	785	5,420	3,980	3,530	4,240	1,290	884	1,250	305	284	240
6	458	712	5,690	4,020	3,030	4,220	1,230	897	1,480	259	272	240
7	438	782	5,860	4,080	2,620	3,650	1,160	820	909	247	265	225
8	550	1,110	5,910	4,700	2,350	3,330	1,050	736	681	297	259	227
9	902	2,760	5,850	5,300	2,180	3,210	995	704	555	311	276	234
10	929	3,760	5,730	5,520	2,070	2,950	984	707	467	367	312	226
11	933	3,960	5,590	5,490	1,980	2,290	956	678	413	543	387	226
12	877	3,250	5,440	5,270	1,900	1,970	1,190	696	449	386	271	222
13	758	2,830	5,280	5,040	1,810	1,880	1,310	692	441	357	348	224
14	668	3,880	3,810	4,950	2,380	1,830	1,940	1,030	392	650	338	225
15	611	4,160	2,230	4,970	2,780	1,730	2,920	1,360	379	544	280	573
16	531	5,340	1,800	4,960	3,180	1,600	3,470	951	502	383	275	768
17	499	6,330	1,640	4,880	3,020	2,180	4,340	902	461	317	266	1,120
18	796	6,450	1,560	4,770	2,880	3,910	4,910	900	416	421	281	725
19	979	7,200	1,500	4,110	2,640	4,520	4,930	855	394	1,130	269	459
20	1,400	7,970	1,450	3,550	2,440	5,030	4,720	700	436	2,480	273	349
21	1,210	8,390	1,410	3,150	2,300	5,300	4,390	594	364	1,980	260	318
22	1,030	9,430	1,390	3,300	2,220	5,040	4,180	553	327	1,100	267	296
23	936	10,200	1,740	4,490	2,180	4,390	4,020	517	334	702	268	288
24	829	10,700	3,000	5,240	2,030	3,790	3,860	489	325	503	277	325
25	758	11,600	4,640	5,470	1,620	3,310	3,690	447	316	385	278	294
26	685	12,400	6,420	4,930	1,550	2,890	3,370	419	314	332	325	271
27	649	12,900	7,200	4,070	1,980	2,660	2,920	408	319	338	393	257
28	1,230	12,700	8,240	3,600	2,470	2,550	2,030	393	301	310	341	254
29	1,660	10,700	8,780	3,430	---	2,340	1,480	378	353	277	357	240
30	2,160	8,050	8,710	3,260	---	1,740	1,170	353	402	431	372	229
31	1,890	---	8,020	3,090	---	1,550	---	357	---	561	263	---
<b>Total</b>	27,489	173,094	146,330	139,840	70,430	95,740	74,245	22,307	14,685	17,743	9,736	10,080
<b>Mean</b>	887	5,770	4,720	4,511	2,515	3,088	2,475	720	490	572	314	336
<b>Max</b>	2,160	12,900	8,780	6,360	3,850	5,300	4,930	1,360	1,480	2,480	542	1,120
<b>Min</b>	438	712	1,390	3,090	1,550	1,550	956	353	301	247	259	222

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2007 <sup>a</sup>, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	1,727	1,655	2,218	3,252	3,881	4,742	3,710	1,906	1,588	1,416	1,544	2,141
<b>Max</b>	11,750	5,770	4,720	6,644	12,080	11,400	7,850	7,276	5,530	4,668	4,761	14,650
<b>(WY)</b>	(2000)	(2007)	(2007)	(1993)	(1998)	(1998)	(1989)	(1989)	(1995)	(1989)	(2003)	(1999)
<b>Min</b>	310	326	615	884	1,297	933	631	433	342	394	264	246
<b>(WY)</b>	(1984)	(1988)	(2002)	(1986)	(2006)	(2006)	(1986)	(1986)	(1986)	(1987)	(1983)	(1985)

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SUMMARY STATISTICS

	Calendar Year 2006		Water Year 2007		Water Years 1983 - 2007 <sup>a</sup>	
<b>Annual total</b>	803,905		801,719			
<b>Annual mean</b>	2,202		2,196		2,538	
<b>Highest annual mean</b>					4,018	2003
<b>Lowest annual mean</b>					1,040	2002
<b>Highest daily mean</b>	12,900	Nov 27	12,900	Nov 27	38,200	Sep 20, 1999
<b>Lowest daily mean</b>	352	Aug 17	222	Sep 12	162	Sep 10, 1983
<b>Annual seven-day minimum</b>	410	Aug 15	226	Sep 7	172	Sep 15, 1985
<b>Maximum peak flow</b>			13,000	Nov 27	38,500	Sep 20, 1999
<b>Maximum peak stage</b>			20.75	Nov 27	28.85	Sep 20, 1999
<b>Instantaneous low flow</b>			<sup>b</sup> 210	Sep 12	<sup>b</sup> 157	Sep 19, 1985
<b>10 percent exceeds</b>	5,470		5,300		6,350	
<b>50 percent exceeds</b>	1,240		1,130		1,400	
<b>90 percent exceeds</b>	543		278		408	

<sup>a</sup> Regulated period only (1983-2007). See Remarks.

<sup>b</sup> See Remarks.

