

Water-Data Report 2010

**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.--Records fair except those for estimated daily discharges, which are poor. 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.

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 2009 TO SEPTEMBER 2010**  
**DAILY MEAN VALUES**

[e, estimated]

Day	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
1	744	343	2,920	5,640	5,900	e5,310	7,440	706	4,480	390	783	772
2	648	340	3,010	5,700	5,180	e5,610	8,430	652	4,380	413	689	573
3	525	365	3,260	5,660	4,920	5,920	8,770	594	4,270	426	535	508
4	445	595	3,770	5,510	5,370	6,450	6,830	545	4,130	376	485	458
5	392	526	4,570	5,260	6,440	6,620	4,350	503	4,050	351	564	429
6	376	461	5,150	4,990	8,210	6,250	3,240	528	3,990	360	510	404
7	359	389	5,580	4,670	8,720	4,680	2,920	528	3,960	353	1,130	369
8	362	345	5,860	3,300	9,530	3,300	2,620	497	3,790	348	1,640	341
9	357	344	6,260	2,530	10,300	2,780	2,260	450	3,410	334	1,080	331
10	342	341	6,550	2,200	11,000	2,430	2,120	417	2,120	344	731	321
11	349	985	6,660	2,050	11,400	2,220	2,460	394	1,110	429	554	308
12	343	2,560	6,920	1,950	11,000	2,240	2,110	356	793	459	465	312
13	331	4,630	7,220	1,830	9,420	2,660	1,820	350	696	514	408	310
14	338	5,510	7,420	1,570	7,910	3,660	1,650	349	617	413	393	312
15	396	6,020	7,250	1,460	6,780	4,210	1,480	319	671	349	423	317
16	425	6,170	6,810	1,420	6,380	4,200	1,370	314	914	313	364	304
17	456	5,880	6,290	1,630	6,080	3,370	1,320	390	798	333	317	288
18	416	4,440	5,770	2,970	5,960	2,830	1,250	631	614	380	302	257
19	377	3,750	5,540	4,840	5,820	2,340	1,160	2,360	579	430	339	250
20	372	3,520	5,420	5,410	5,630	2,170	1,060	3,450	546	572	361	249
21	353	3,420	5,270	5,580	5,450	2,580	1,030	3,450	494	484	482	262
22	343	2,470	4,440	5,730	5,350	3,310	1,060	2,330	445	390	850	258
23	344	2,100	3,950	6,370	5,400	3,720	1,030	1,750	414	410	798	262
24	338	2,080	4,040	7,280	5,510	3,930	1,040	2,340	396	461	703	264
25	313	2,350	4,210	8,100	5,640	3,310	980	3,360	385	353	1,430	264
26	311	2,390	4,600	8,540	5,600	2,110	927	3,860	425	352	2,830	440
27	316	2,510	4,890	8,500	5,460	1,730	1,000	3,620	399	411	3,210	1,170
28	299	2,990	5,170	8,380	5,330	1,600	974	2,410	356	336	3,430	2,690
29	297	3,130	5,310	8,140	---	e2,620	848	2,290	380	305	3,330	3,920
30	339	2,990	5,360	7,740	---	e4,130	754	3,630	410	401	1,870	6,810
31	373	---	5,540	7,100	---	6,590	---	4,190	---	454	1,230	---
<b>Total</b>	11,979	73,944	165,010	152,050	195,690	114,880	74,303	47,563	50,022	12,244	32,236	23,753
<b>Mean</b>	386	2,465	5,323	4,905	6,989	3,706	2,477	1,534	1,667	395	1,040	792
<b>Max</b>	744	6,170	7,420	8,540	11,400	6,620	8,770	4,190	4,480	572	3,430	6,810
<b>Min</b>	297	340	2,920	1,420	4,920	1,600	754	314	356	305	302	249

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1983 - 2010<sup>a</sup>, BY WATER YEAR (WY)**

	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
<b>Mean</b>	1,615	1,627	2,295	3,212	3,814	4,634	3,623	1,856	1,549	1,323	1,460	2,078
<b>Max</b>	11,750	5,770	5,323	6,644	12,080	11,400	7,850	7,276	5,530	4,668	4,761	14,650
<b>(WY)</b>	(2000)	(2007)	(2010)	(1993)	(1998)	(1998)	(1989)	(1989)	(1995)	(1989)	(2003)	(1999)
<b>Min</b>	310	326	615	884	1,262	933	631	433	342	394	264	246
<b>(WY)</b>	(1984)	(1988)	(2002)	(1986)	(2009)	(2006)	(1986)	(1986)	(1986)	(1987)	(1983)	(1985)

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SUMMARY STATISTICS

	Calendar Year 2009		Water Year 2010		Water Years 1983 - 2010 <sup>a</sup>	
<b>Annual total</b>	777,496		953,674			
<b>Annual mean</b>	2,130		2,613		2,467	
<b>Highest annual mean</b>					4,018	2003
<b>Lowest annual mean</b>					1,040	2002
<b>Highest daily mean</b>	7,770	Mar 6	11,400	Feb 11	38,200	Sep 20, 1999
<b>Lowest daily mean</b>	297	Oct 29	249	Sep 20	162	Sep 10, 1983
<b>Annual seven-day minimum</b>	316	Oct 24	257	Sep 18	172	Sep 15, 1985
<b>Maximum peak flow</b>			11,500	Feb 11	38,500	Sep 20, 1999
<b>Maximum peak stage</b>			19.85	Feb 11	28.85	Sep 20, 1999
<b>Instantaneous low flow</b>			240	Sep 20	<sup>b</sup> 157	Sep 19, 1985
<b>10 percent exceeds</b>	5,390		6,320		6,140	
<b>50 percent exceeds</b>	1,160		1,600		1,370	
<b>90 percent exceeds</b>	385		340		394	

<sup>a</sup> Regulated period only (1983-2010). See Remarks.

<sup>b</sup> See Remarks.

